# SSC CPO 2023

# ANSWER KEY

**English**

**9 Shifts**

GAGAN PRATAP SIR

# SSC CPO 2023 PAPER-01 ANSWER KEY COMPILATION

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**Q.1** Seven people, A, B, C, D, E, F and G, are sitting in a straight row, facing north (not necessarily in the same order). Only 1 person sits to the left of D. A is an immediate neighbour of D. Only 2 people sit between F and D. Only 3 people sit between C and G. B is not an immediate neighbour of G. Only 2 people sit between E and A.
Who sits at the extreme right end of the row?

**Ans** ✅ 1. C

❌ 2. G

❌ 3. A

❌ 4. B

**Q.2** Two statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.
Statements:
All plants are vegetables.
Some plants are poisonous.
Conclusions:
I. All vegetables are poisonous.
II. Some vegetables are plants.

**Ans** ❌ 1. Both conclusions I and II follow

✅ 2. Only conclusion II follows

❌ 3. Neither conclusion I nor II follows

❌ 4. Only conclusion I follows

**Q.3** Six friends are sitting in a circle. All of them are facing the centre. Kanak sits third to the right of Sona. Kapil is an immediate neighbour of Mani. Goldy sits second to the right of Mani. Sona is an immediate neighbour of Kapil and Suresh.
Who sits to the immediate right of Goldy?

**Ans** ✅ 1. Suresh

❌ 2. Kapil

❌ 3. Sona

❌ 4. Kanak

**Q.4** Which of the following numbers will replace the question mark (?) in the given series?

35, ?, 40, 47, 45, 53

**Ans** ❌ 1. 42

❌ 2. 43

❌ 3. 37

✅ 4. 41

**Q.5** Which figure from the given options would replace the question mark (?) if the following figure series were to be continued?

| BLAST | LBPTS | SLBPT | LSCTP | ? |

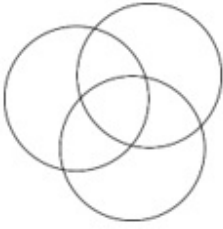**Ans**

✗ 1. SLDPT

✔ 2. PLSCT

✗ 3. SCTPL

✗ 4. PLTSC

**Q.6** In a certain code language, 'COURT' is coded as OCRTR and 'JUDGE' is coded as UJAEG. How will 'ORDER' be coded in the same language?

**Ans**  ✗ 1. REARO
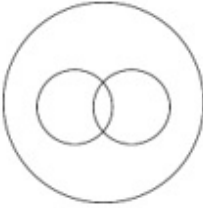
✗ 2. ROBRE

✗ 3. LDRRE

✔ 4. ROARE

**Q.7** Select the Venn diagram that best illustrates the relationship between the following classes.
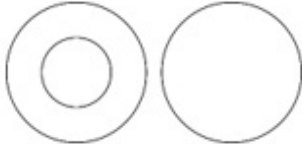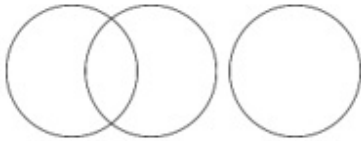Electrical Appliance, Refrigerator, Freezer
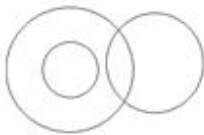
**Ans**

✗ 1. 

✔ 2. 

✗ 3. 

✗ 4. 

**Q.8** Select the Venn diagram that best illustrates the relationship between the following classes.

Pencil, Eraser, Sharpener

**Ans**

✗ 1. 

✔ 2. 

✗ 3. 

✗ 4. 

**Q.9** Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13- Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
(7, 91, 98)
(4, 52, 56)

**Ans**    ✗ 1. (8, 80, 96)

✔ 2. (12, 156, 168)

✗ 3. (3, 36, 42)

✗ 4. (5, 25, 60)

**Q.10** उस विकल्प का चयन करें, जो तीसरे शब्द से उसी प्रकार संबंधित है, जिस प्रकार दूसरा शब्द पहले शब्द से संबंधित है। (शब्दों को अर्थपूर्ण शब्दों के रूप में माना जाना चाहिए, और इनको शब्द में अक्षरों की संख्या/व्यंजनों/स्वरों की संख्या के आधार पर एक-दूसरे से संबंधित नहीं किया जाना चाहिए।)

तितली (**Butterfly**) : इल्ली (**Caterpillar**) :: कीट (**Insect**) : ?

**Ans**  ✗ 1. रोगाणु (Microbes)

✗ 2. निंफ (Nymph)

✓ 3. लार्वा (Larva)

✗ 4. सिग्नेट (Cygnet)

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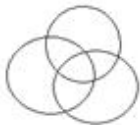**Q.11** Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)

(7, 35, 42), (4, 20, 24)

**Ans**  ✓ 1. (9, 45, 54)

✗ 2. (12, 60, 48)

✗ 3. (8, 56, 72)

✗ 4. (6, 36, 48)

---

**Q.12** Which letter cluster will replace the question mark (?) to complete the given series?

ELSV, FJVR, GHYN, ?, IDEF

**Ans**  ✗ 1. HFJB

✓ 2. HFBJ

✗ 3. HBJF

✗ 4. GHFJ

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**Q.13** If A denotes '+', B denotes '×', C denotes '−', and D denotes '÷', then what will come in place of '?' in the following equation?
2 B ? D 2 = 4 B 32 D 8

**Ans**  ✓ 1. 16

✗ 2. 30

✗ 3. 12

✗ 4. 8

---

**Q.14** If A denotes '+', B denotes '×', C denotes '−', and D denotes '÷', then what will come in place of '?' in the following equation?
7 A 3 B 24 D 2 = 20 B ? A 3

**Ans**  ✗ 1. 20

✓ 2. 2

✗ 3. 7

✗ 4. 14

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**Q.15** In a certain code language, 'FRIEND' is written as 'IIFDME' and 'DEMAND' is written as 'MVDDMA'. How will 'GROUND' be written in that language?

**Ans**  ✗ 1. DOTENC

✗ 2. OFTSBU

✓ 3. OIGDMU

✗ 4. PXKRYS

**Q.16** Select the set in which the numbers are related in the same way as are the numbers of the following set.

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /subtracting/ multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)

(6, 2, 96)
(5, 6, 240)

**Ans**  ✗ 1. (12,3,45)

 ✗ 2. (8,3,28)

 ✓ 3. (1,2,16)

 ✗ 4. (4,1,6)

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**Q.17** Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.

1. Desire
2. Destination
3. Descend
4. Destructive
5. Desolate
6. Desperate

**Ans**  ✗ 1. 3, 1, 6, 5, 2, 4

 ✗ 2. 3, 1, 5, 6, 4, 2

 ✗ 3. 3, 1, 2, 6, 5, 4

 ✓ 4. 3, 1, 5, 6, 2, 4

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**Q.18** Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.

TEMPLE : SCJLGY :: CHURCH : BFRNXB :: MOSQUE :?

**Ans**  ✗ 1. LMPYMP

 ✗ 2. LMPYPM

 ✗ 3. LPYMPM

 ✓ 4. LMPMPY

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**Q.19** Select the option that represents the correct order of the given words as they would appear in an English dictionary?
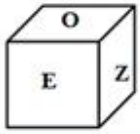1.Lollipop
2.Loincloth
3.Longways
4.Logician
5.Lonely

**Ans**  ✗ 1. 3, 2, 1, 5, 4

 ✓ 2. 4, 2, 1, 5, 3

 ✗ 3. 3, 4, 1, 5, 2

 ✗ 4. 4, 3, 1, 5, 2

**Q.20** If the given sheet is folded to form a cube, which of the given figures is/are possible? (The elements are shown to indicate the sides only.)
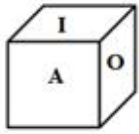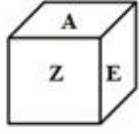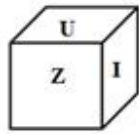


**Ans**

✗ 1. Only 1 and 2

✓ 2. Only 3

✗ 3. Only 2 and 3

✗ 4. Only 1, 2 and 4

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**Q.21** Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the odd letter-cluster.

**Ans**

✗ 1. PRKL

✗ 2. FHAB

✓ 3. PSJK

✗ 4. WYRS

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**Q.22** L is the wife of Q. P is the mother of M. J is the father of L. M is the sister of H. J is the husband of H. How is P related to L?

**Ans**

✗ 1. Mother's sister

✗ 2. Sister's son

✓ 3. Mother's mother

✗ 4. Sister's husband

Select the option that is embedded in the given figure as its part (rotation is NOT allowed).



**Ans**

✔ 1.
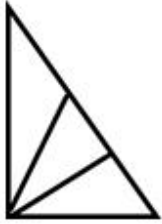


✘ 2.
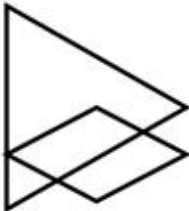


✘ 3.



✘ 4.



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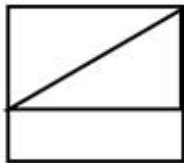
**Q.24** Two statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.
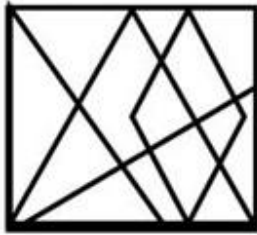**Statements:**
All flowers are trees.
All leaves are flowers.
**Conclusion:**
I)All trees are flowers.
II)All leaves are trees.

**Ans** ✘ 1. Only Conclusion I follows

✘ 2. Neither Conclusion I nor II follows.

✔ 3. Only Conclusion II follows.

✘ 4. Both Conclusions I and II follow.

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**Q.25** If '+' means '×', '×' means '−', '−' means '÷' and '÷' means '+', then what will come in place of the (?) in the following equation?
250 − 10 + 10 × 5 ÷ 2 = ?

**Ans** ✘ 1. 320

✘ 2. 234

✘ 3. 167

✔ 4. 247

**Q.26** Which of the following numbers will replace the question mark (?) in the given series?
115, 130, 122, 137, 129, ?

**Ans** ✗ 1. 148

✓ 2. 144

✗ 3. 150

✗ 4. 142

**Q.27** A person starts from point Z and moves 7 km towards the South. He turns right and moves 5 km, turns right, and moves 3 km, then turns right and moves 1 km. He takes a left turn and moves 4 km to reach a point X. How much and in which direction does he need to move now to reach point Z?

**Ans** ✓ 1. 4 km East

✗ 2. 4 km West

✗ 3. 6 km East

✗ 4. 4 km South

**Q.28** If A denotes '+', B denotes '×', C denotes '−', and D denotes '÷', then what will be the value of the following expression?
39 D 13 B 2 C 6 A 8

**Ans** ✗ 1. 9

✓ 2. 8

✗ 3. 10

✗ 4. 12

**Q.29** Study the given pattern carefully and select the number that can replace the question mark (?) in it.
First row: 19, 6, 37
Second row: 21, 8, 45
Third row: 72, 14, ?
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

**Ans** ✓ 1. 114

✗ 2. 144

✗ 3. 134

✗ 4. 124

**Q.30** Select the figure that will come next in the following figure series.
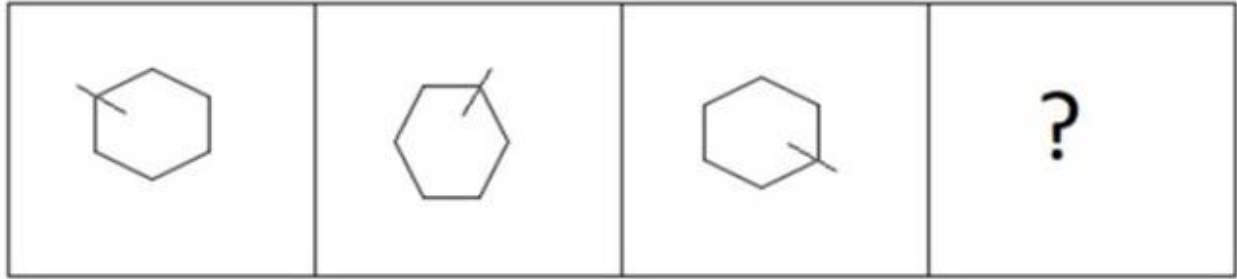


**Ans**

✗ 1.



✗ 2.
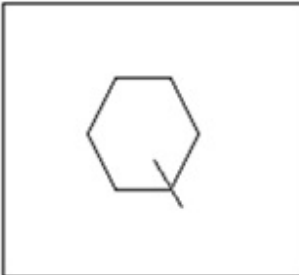


✔ 3.
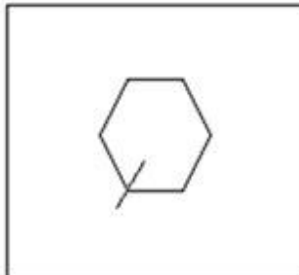


✗ 4.
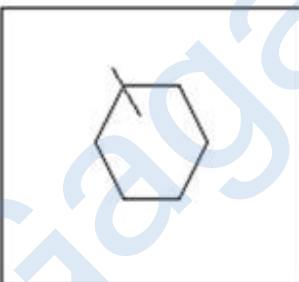


**Q.31** Which of the following terms will replace the question mark (?) in the given series?

ABEG  FFHI  KJKK  PNNM  ?

**Ans**
✗ 1. VRQO

✔ 2. URQO

✗ 3. UROQ

✗ 4. RUQO

**Q.32** Which letter-cluster will replace the question mark (?) to complete the given series?
MKPN, LMOP, ?, JQMT, ISLV

**Ans** ✔ 1. KONR

✘ 2. KNNQ

✘ 3. KNMR

✘ 4. KOLT

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**Q.33** In a certain code language, 'VATT' is coded as '65' and 'STOLK' is coded as '79'. How will 'GENEROUS' be coded in that language?

**Ans** ✘ 1. 204

✘ 2. 216

✔ 3. 106

✘ 4. 116

---

**Q.34** Select the option in which the given figure is embedded (rotation is NOT allowed).



**Ans**

✘ 1. 

✔ 2. 

✘ 3. 

✘ 4. 

**Q.35** Select the figure that will replace the question mark (?) in the following figure series.
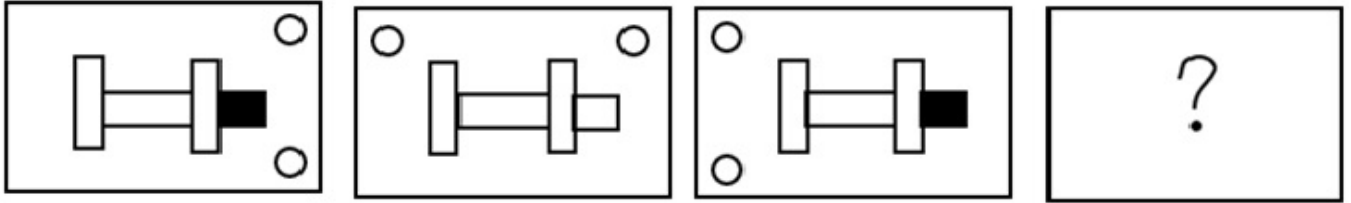


**Ans**

✗ 1.
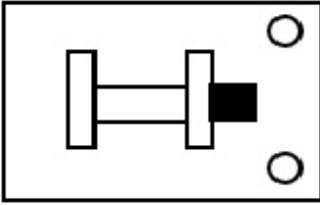


✗ 2.
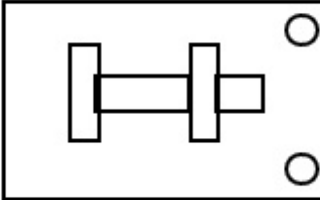


✗ 3.
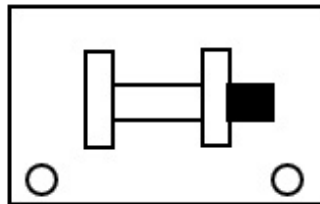


✔ 4.
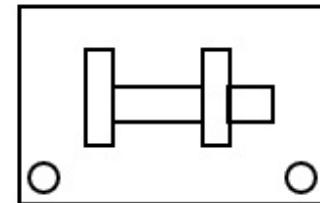


**Q.36** In a certain code language, 'GAME' is coded as '8426' and 'MUST' is coded as '7853'. What is the code for 'M' in the given code language?

**Ans** ✗ 1. 7

✗ 2. 3

✗ 3. 2

✔ 4. 8

**Q.37** Two different positions of the same dice are shown, the six faces of which are numbered from 1 to 6. Select the number that will be on the face opposite to the one showing '1'.
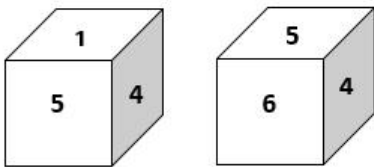


**Ans** ✗ 1. 5

✗ 2. 3

✗ 3. 4

✔ 4. 6

**Q.38** If '+' means '−', '−' means '×', '×' means '÷', '÷' means '+', then what will come in place of the question mark (?) in the following equation?
137 ÷ 56 × 7 − 6 + 31 = ?

Ans
✔ 1. 154

✘ 2. 163

✘ 3. 145

✘ 4. 149

**Q.39** If A denotes '+', B denotes '×', C denotes '−', and D denotes '÷', then what will be the value of the following equation?
96 D 3 B 8 C 25 A 14 = ?

Ans
✘ 1. 217

✘ 2. 234

✔ 3. 245

✘ 4. 254

**Q.40** In a certain code language, 'FLORA' is written as 'WQOLC' and 'MONEY' is written as 'PNPYE'. How will 'GOING' be written in that language?

Ans
✘ 1. RMWEH

✔ 2. VNUPW

✘ 3. VBUDP

✘ 4. RHKSR

**Q.41** Which of the following numbers will replace the question mark (?) in the given series?
−1/729, −1/81, −1/9, ?

Ans
✘ 1. -1/3

✔ 2. -1

✘ 3. 1/3

✘ 4. 1

**Q.42** Rohit drives 3 km towards north from point A. He takes a left turn and drives 4 km. Again he takes a left turn and drives 6 km. Finally, he takes a left turn and drives 4 km to reach point B. How far and towards which direction should he drive in order to reach point A again?

Ans
✔ 1. 3 km towards north

✘ 2. 2 km towards west

✘ 3. 4 km towards south

✘ 4. 3 km towards east

**Q.43** Three different positions of the same dice are shown. Find the number on the face opposite the face showing '1'.
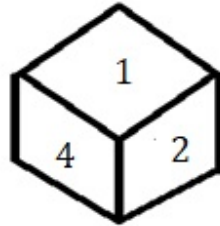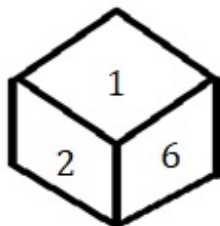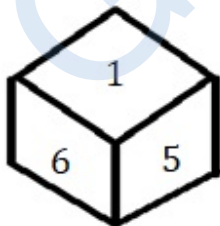


Ans
✔ 1. 3

✘ 2. 4

✘ 3. 2

✘ 4. 6

**Q.44** Select the correct mirror image of the given figure when the mirror is placed at line MN as shown.



**Ans**

✘ 1. 

✔ 2. 

✘ 3. 

✘ 4. 
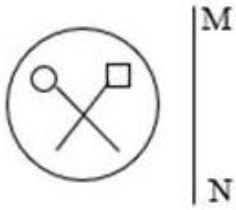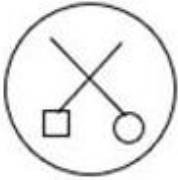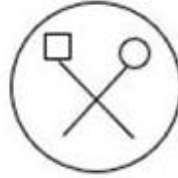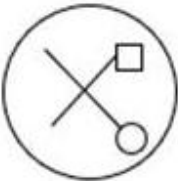
**Q.45** Select the correct mirror image of the given figure, when the mirror is placed at line MN as shown.



**Ans**



✅ 1.

❌ 2.

❌ 3.

❌ 4.
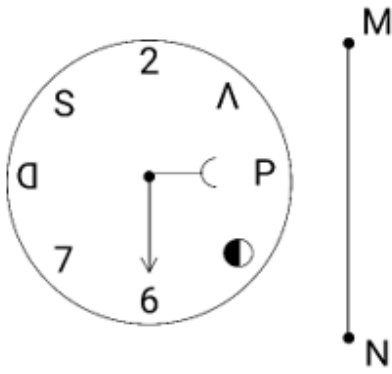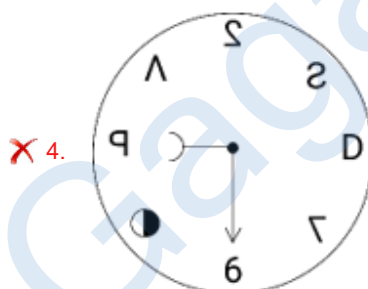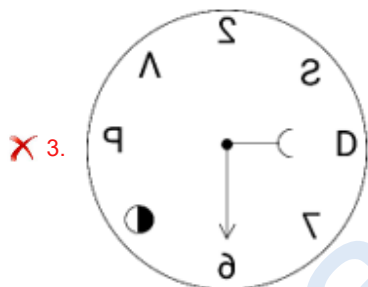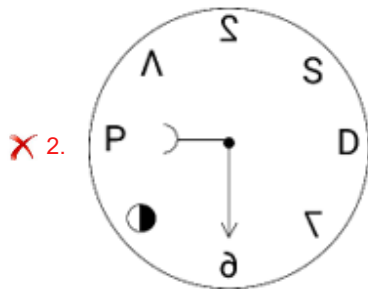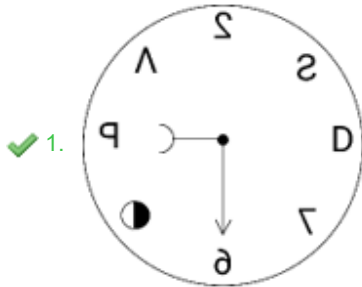
**Q.46** Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.

**Ans**
❌ 1. JIGQ

❌ 2. WVTD

✅ 3. KLNP

❌ 4. SRPH

**Q.47** 'A = B' means 'A is the father of B'.
'A $ B' means 'A is the sister of B'.
'A * B' means 'A is the mother of B'.
'A ? B' means 'A is the son of B'.
If M ? C $ J * Z, then how is J related to M?

**Ans**   ✗ 1. Brother

✗ 2. Sister

✔ 3. Mother's sister

✗ 4. Mother's mother

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**Q.48** Three different positions of the same dice are shown. Find the number on the face opposite the face showing '4'.
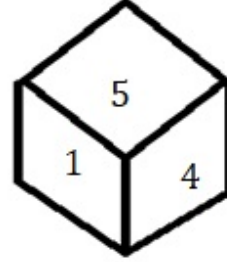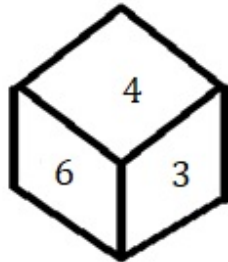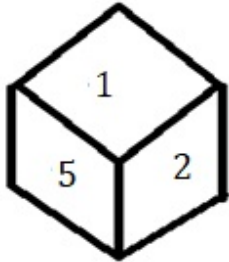


**Ans**   ✔ 1. 2

✗ 2. 6

✗ 3. 3

✗ 4. 1

---

**Q.49** If '+' means '÷', '−' means '+', '×' means '−' and '÷' means '×', what will be the value of the following expression?
[{( 14 × 6 ) - ( 4 ÷ 3 )} + ( 6 - 4 )] ÷ 3

**Ans**   ✗ 1. 1

✗ 2. 9

✔ 3. 6

✗ 4. 3

---

**Q.50** Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)

(264, 462), (132, 330)

**Ans**   ✗ 1. (211, 340)

✗ 2. (188, 378)

✗ 3. (282, 496)

✔ 4. (386, 584)

---

**Q.1** The structure that produces and holds sperm cells in bryophytes (non-vascular plants) and ferns is called:

**Ans**   ✗ 1. megasporangia

✔ 2. antheridium

✗ 3. archegonium

✗ 4. protonema

**Q.2** How many Members of Parliament were elected from Punjab to the 17th Lok Sabha?

**Ans**
- ✗ 1. 15
- ✗ 2. 14
- ✓ 3. 13
- ✗ 4. 17

**Q.3** Which of the following statement is correct regarding climate of Indian subcontinent?
A. The climate of North India remains similar throughout the year
B. The Himalayas protect the subcontinent from extremely cold winds from central Asia.

**Ans**
- ✗ 1. Only Statement A is correct
- ✗ 2. Both Statements A and B incorrect
- ✓ 3. Only Statement B is correct
- ✗ 4. Both Statements A and B correct

**Q.4** Dr.Teejan Bai, a Padma Shri, Padma Bhushan and Padma Vibhushan awardee is globally recognised for her contribution to which of the following art forms?

**Ans**
- ✓ 1. Pandavani
- ✗ 2. Raut Nacha.
- ✗ 3. Jhirliti
- ✗ 4. Gendi

**Q.5** Shore temple of Mamallapuram was built by:

**Ans**
- ✗ 1. Cholas
- ✗ 2. Chalukayas
- ✓ 3. Pallavas
- ✗ 4. Nagas

**Q.6** The Guru Kelucharan Mohapatra Yuva Pratibha Samman 2021 was presented to Arushi Mudgal for _____ dance.

**Ans**
- ✗ 1. Mohiniyattam
- ✗ 2. Kuchipudi
- ✗ 3. Kathak
- ✓ 4. Odissi

**Q.7** Which of the following was established by Jyotirao Govindrao Phule in 1873 to fight against idolatry and caste system?

**Ans**
- ✗ 1. Young Bengal Movement
- ✓ 2. Satyashodhak Samaj
- ✗ 3. Shree Narayan Guru Dharma Paripalana (SNDP) Movement
- ✗ 4. Arya Samaj

**Q.8** Atal Tunnel connects which two places?

**Ans**
- ✓ 1. Manali and Lahaul-Spiti valley
- ✗ 2. Shimla and Nainital
- ✗ 3. Manali and Nainital
- ✗ 4. Shimla and Mansoori

**Q.9** What is the full form of PPLO with respect to bacteria?

**Ans**
✗ 1. Pleuro Platelet Like Organisms

✗ 2. Platelet Prone Like Organisms

✓ 3. Pleuro Pneumonia Like Organisms

✗ 4. Pneumonia Platelet Like Organisms

---

**Q.10** Sao Joao festival is celebrated primarily by the Catholic Christians in which of the following Indian states?

**Ans**
✓ 1. Goa

✗ 2. Assam

✗ 3. Manipur

✗ 4. Nagaland

---

**Q.11** Moatsu festival of Nagaland is celebrated by which of the following tribes?

**Ans**
✗ 1. Bodo tribe

✗ 2. Munda tribe

✗ 3. Bhil tribe

✓ 4. Ao tribe

---

**Q.12** With which neighbouring country did India sign the Farakka Treaty in 1996 for sharing of the Ganga Waters and on augmenting its flows?

**Ans**
✗ 1. Afghanistan

✗ 2. Bhutan

✗ 3. Nepal

✓ 4. Bangladesh

---

**Q.13** Continental Shelf which is the shallowest part of the ocean has an average gradient of:

**Ans**
✓ 1. 1° or even less

✗ 2. 2° or even less

✗ 3. 8° or even less

✗ 4. 5° or even less

---

**Q.14** Vallabhbhai Patel and _____ helped Gandhi in Kheda by organising his tour of the villages and urging the peasants to stand firm against the government.

**Ans**
✗ 1. Motilal Nehru

✗ 2. Mohammad Ali Jinnah

✓ 3. Indulal Yajnik

✗ 4. Jamunalal Bajaj

---

**Q.15** Which of the following algae is also called kelp and found in the deep sea?

**Ans**
✓ 1. Laminaria

✗ 2. Fucus

✗ 3. Nostoc

✗ 4. Chlamydomona

**Q.16** Which of the following is NOT an Equestrian discipline?

**Ans** ✗ 1. Dressage

✗ 2. Vaulting

✓ 3. Sprint

✗ 4. Show jumping

**Q.17** In a volleyball game, each team comprise of how many players?

**Ans** ✗ 1. 5

✗ 2. 8

✓ 3. 6

✗ 4. 7

**Q.18** Which of the following is considered as a good indicator of economic growth?

**Ans** ✗ 1. Steady increase in loan

✗ 2. Steady increase in population

✓ 3. Steady increase in the GDP

✗ 4. Steady increase in international trade

**Q.19** In India, which of the following regulatory mechanisms was NOT in existence to enforce regulation of the industrial sector?

**Ans** ✗ 1. Industrial licensing under which every entrepreneur had to get permission from government officials to start a firm, close a firm or decide the amount of goods that could be produced.

✗ 2. Some goods could be produced only in small-scale industries.

✓ 3. Private sector was allowed in all industries.

✗ 4. Controls on price fixation and distribution of selected industrial products.

**Q.20** Which German chemist was the first to show a graphical representation of the periodicity of an atomic volume plotted against atomic weight?

**Ans** ✗ 1. William Ramsay

✗ 2. John Newlands

✗ 3. Glenn T Seaborg

✓ 4. Lothar Meyer

**Q.21** Which ruler of the Chahamana dynasty made Ajmer his capital?

**Ans** ✗ 1. Prithviraj III

✗ 2. Prithviraj II

✗ 3. Arnoraj

✓ 4. Ajayaraja

**Q.22** What is Kalbaisakhi?

**Ans** ✗ 1. Snowfall and hail

✗ 2. Heatwaves and loo

✓ 3. Pre monsoon showers and thunderstorms

✗ 4. Cold waves and rains

**Q.23** Bhutia dance is performed in which of the following states?

**Ans**
❌ 1. Nagaland

❌ 2. Odisha

❌ 3. West Bengal

✅ 4. Sikkim

**Q.24** Which is the most widely accepted model to explain the formation and evaluation of the solar system?

**Ans**
❌ 1. Cloud hypothesis

❌ 2. Gas hypothesis

✅ 3. Nebular hypothesis

❌ 4. Solar hypothesis

**Q.25** In how many phases did the Indian Economy experience the success of the Green Revolution?

**Ans**
❌ 1. Three

✅ 2. Two

❌ 3. Five

❌ 4. Four

**Q.26** Which of the following books is an autobiography of the former American president Bill Clinton?

**Ans**
❌ 1. Long Walk to Freedom

❌ 2. My Country My Life

✅ 3. My Life

❌ 4. Becoming

**Q.27** Prithviraj Raso, an epic poem about the life of the 12th century Indian king, Prithviraj Chauhan, was written by:

**Ans**
✅ 1. Chand Bardai

❌ 2. Banabhatta

❌ 3. Bharavi

❌ 4. Ashvaghosa

**Q.28** Who among the following founded the Kalakshetra Foundation in Chennai that is an important centre for the study and performance of fine arts?

**Ans**
❌ 1. Alarmel Valli

❌ 2. Mrinalini Sarabhai

❌ 3. Yamini Krishnamurthy

✅ 4. Rukmini Devi Arundale

**Q.29** According to the Global Hunger Index 2022, which neighbouring country is only behind India with a rank of 109 out of 121 countries?

**Ans**
✅ 1. Afghanistan

❌ 2. Pakistan

❌ 3. Nepal

❌ 4. Bangladesh

**Q.30** Methyl ethyl ketone is also known as:

**Ans** ✗ 1. methyl pentanone

✗ 2. 2-butanol

✓ 3. 2-butanone

✗ 4. propanone

---

**Q.31** How many controls are there globally that influence the climate of a particular zone?

**Ans** ✓ 1. 6

✗ 2. 8

✗ 3. 5

✗ 4. 3

---

**Q.32** Which part of the Indian Constitution deals with fundamental rights?

**Ans** ✗ 1. Part IV

✗ 2. Part II

✓ 3. Part III

✗ 4. Part V

---

**Q.33** Who among the following has given extraordinary powers during an emergency?

**Ans** ✗ 1. Prime Minister

✓ 2. The President

✗ 3. The Chief Justice

✗ 4. The Governor

---

**Q.34** The First Commonwealth Games were organised in which of the following years?

**Ans** ✗ 1. 1926

✓ 2. 1930

✗ 3. 1920

✗ 4. 1922

---

**Q.35** Which of the following does NOT belong to the family of organic compounds?

**Ans** ✗ 1. Furan

✗ 2. Decane

✓ 3. Ammonia

✗ 4. Nonane

---

**Q.36** Identify whether the given statements about p-block elements are correct or incorrect.
Statement A: In p-block elements, the last electron enters the outermost p orbital.
Statement B: The non-metals and metalloids exist only in the p-block of the periodic table.

**Ans** ✓ 1. Both Statements A and B are correct

✗ 2. Only Statement A is correct

✗ 3. Only Statement B is correct

✗ 4. Both Statements A and B are incorrect

**Q.37** For Kharif crops, the temperature required for farming is above 25 degrees Celsius with high humidity and annual rainfall above _____ cm.

**Ans**
✗ 1. 16

✗ 2. 50

✓ 3. 100

✗ 4. 35

**Q.38** The deliberations of the representatives at the Third Round Table Conference was held during the later months of which year?

**Ans**
✓ 1. 1932

✗ 2. 1929

✗ 3. 1930

✗ 4. 1931

**Q.39** Priorities of the government in the fiscal area and its related policies and deviations are mentioned in which part of the budget document?

**Ans**
✗ 1. Medium-term Fiscal Policy Statement

✓ 2. Fiscal Policy Strategy Statement

✗ 3. Macroeconomic Framework Statement

✗ 4. Appropriation Bill

**Q.40** Tansen, the famous musician, often sang in the court of which ruler?

**Ans**
✓ 1. Akbar

✗ 2. Sher Shah Suri

✗ 3. Feroz Shah Tughlaq

✗ 4. Allaudin Khilji

**Q.41** In India all loans that are below _____ are considered as micro loans.

**Ans**
✓ 1. one lakh rupees

✗ 2. four lakh rupees

✗ 3. two lakh rupees

✗ 4. three lakh rupees

**Q.42** In November 2020, _____ has set a record of becoming the world's fastest piano player ever.

**Ans**
✗ 1. Gauri Mishra

✗ 2. Shikha Chaurasia

✗ 3. Anisrinivasan

✓ 4. Lydian Nadhaswaram

**Q.43** Dhruvasena II is related to which of the following ruling dynasties?

**Ans**
✗ 1. Vakataka

✓ 2. Maitraka

✗ 3. Pushyabhuti

✗ 4. Maukhari

**Q.44** Who is the first Indian to participate in a Super Heavyweight Boxing event in the 2020 Olympic Games?

**Ans**
✗ 1. Amit Panghal

✗ 2. Manish Harshit

✓ 3. Satish Kumar

✗ 4. Sakshi Chaudhary

**Q.45** Who among the following Indian authors has written the autobiography titled 'My Story'?

**Ans**
✗ 1. Kiran Desai

✗ 2. Arundhati Roy

✗ 3. Shobha Dey

✓ 4. Kamala Das

**Q.46** At normal temperature and atmospheric pressure, _____ has a density of 1.87 kg/m$^3$, which is 1.5 times heavier than air and exists as a liquid below the critical temperature of 31°C.

**Ans**
✗ 1. nitrogen

✓ 2. carbon dioxide

✗ 3. lithium

✗ 4. hydrogen

**Q.47** Who was the first chairman of Finance Commission of India?

**Ans**
✗ 1. K Santhanam

✓ 2. KC Neogy

✗ 3. Ashok Kumar Chanda

✗ 4. PV Rajamannar

**Q.48** Which of the following statements is NOT correct about fundamental duties in the Indian Constitution?

**Ans**
✗ 1. They are made to cherish and follow the noble ideals which inspired our national struggle for freedom.

✗ 2. They are made to develop the scientific temper, humanism and the spirit of inquiry and reform.

✗ 3. They are made to value and preserve the rich heritage of our composite culture.

✓ 4. They are made justiciable in nature.

**Q.49** Identify the position of stomata in plants.

**Ans**
✓ 1. Surface of leaves

✗ 2. Inside the flower

✗ 3. Inside the roots

✗ 4. Tip of stem

**Q.50** Under which of the following Acts was the National Commission for Women established?

**Ans**
✗ 1. The National Commission for Women Act, 1988

✓ 2. The National Commission for Women Act, 1990

✗ 3. The National Commission for Women Act, 1989

✗ 4. The National Commission for Women Act, 1987

**Q.1** Study the given data and answer the question that follows.

The data shows the number of candidates (in thousand) appearing for Civil Service (CS) and Engineering Service (ES) Examinations in the years 2020, 2021, 2022 in USA.

| Year | Civil Service | | Engineering Service | |
|------|---------------|---|---------------------|---|
| | Total No. of Candidates Appeared | Graduates out of the total candidates appeared (in %) | Total No. of Candidates Appeared | Graduates out of the total candidates appeared (in %) |
| 2020 | 75 | 60 | 89 | 57 |
| 2021 | 110 | 64 | 118 | 65 |
| 2022 | 120 | 80 | 135 | 78 |

What is total number of graduates who appeared for both CS and ES together in the year 2022?

Ans ✗ 1. 2,01,000

✗ 2. 2,01,200

✗ 3. 2,01,100

✓ 4. 2,01,300

**Q.2** Study the given data and answer the question that follows.

The tables shows the number of candidates (in lakh) appearing in an entrance exam from four different cities and the ratio of candidates passing and failing in the same.

| City | A | B | C | D |
|------|------|------|------|------|
| Number of candidates | 2.15 | 1.14 | 1.56 | 2.35 |

Ratio of candidates passing and failing within the city.

| City | Passing | Failing |
|------|---------|---------|
| A | 4 | 2 |
| B | 5 | 3 |
| C | 6 | 4 |
| D | 4 | 6 |

What is the number of failed candidates (in lakh) in city D?

Ans ✗ 1. 1.70

✗ 2. 1.85

✗ 3. 1.25

✓ 4. 1.41

**Q.3** The population of a city is 3,52,314. It increases annually at the rate of 15% per annum. What was its population 2 years ago?

Ans ✗ 1. 3,06,360

✗ 2. 2,56,400

✗ 3. 3,02,400

✓ 4. 2,66,400

**Q.4** P, Q and R, when working individually, can complete a job in, respectively, 36 days, 48 days and 144 days. P, Q and R start working together. P leaves the job 12 days before completion and Q leaves the job 8 days before completion. R works from the beginning till the end of the job. Determine the total number of days taken to complete the job.

**Ans** ✗ 1. 30

✗ 2. 24

✓ 3. 27

✗ 4. 25

**Q.5** A person crosses a 900-metre long street in 6 minutes. The speed of the person, in km/h, is:

**Ans** ✗ 1. 5

✓ 2. 9

✗ 3. 10

✗ 4. 8

**Q.6** If a truck moves at a constant speed of 30 km/h for 1 kilometre and 45 km/h for the next 1 kilometre. What is the average speed of the truck?

**Ans** ✓ 1. 36 km/h

✗ 2. 38 km/h

✗ 3. 32 km/h

✗ 4. 34 km/h

**Q.7** Find the LCM of 15, 24, 35 and 54.

**Ans** ✗ 1. 7650

✓ 2. 7560

✗ 3. 6570

✗ 4. 5670

**Q.8** The areas of the two triangles are in the ratio 4 : 3 and their heights are in the ratio 6 : 5. Find the ratio of their bases.

**Ans** ✗ 1. 5 : 6

✓ 2. 10 : 9

✗ 3. 9 : 10

✗ 4. 6 : 5

**Q.9** Find the value of ($\tan^2 \theta + \tan^4 \theta$).

**Ans** ✗ 1. $\sec^2 \theta - \sec^4 \theta$

✗ 2. $\cot^2 \theta - \tan^2 \theta$

✗ 3. $\sec^4 \theta + \sec^2 \theta$

✓ 4. $\sec^4 \theta - \sec^2 \theta$

**Q.10** The following table represents the population of four different areas and the percentage of males, females, and children among them.

| Area | Population | Males | Females | Children |
|------|-----------|-------|---------|----------|
| P | 10,000 | 40% | 40% | 20% |
| Q | 20,000 | 30% | 40% | 30% |
| R | 16,000 | 50% | 30% | 20% |
| S | 18,000 | 45% | 35% | 20% |

What is the total number of children in areas P and Q together?

**Ans** ✗ 1. 7000

✗ 2. 6000

✓ 3. 8000

✗ 4. 9000

---

**Q.11** The radii of two cylinders are in the ratio of 4 : 5 and their heights are in the ratio of 5 : 2. The ratio of their volume is:

**Ans** ✗ 1. 9 : 7

✗ 2. 9 : 4

✓ 3. 8 : 5

✗ 4. 2 : 1

---

**Q.12** A number is first increased by 10% and then increased by 20%. The number, so obtained, is now decreased by 12%. What is the net increase or decrease per cent in the original number?

**Ans** ✗ 1. 12.12% increase

✓ 2. 16.16% increase

✗ 3. 11.11% decrease

✗ 4. 14.14% decrease

---

**Q.13** An item with a marked price of ₹3,800 was sold for ₹3,496, after a discount of y% was offered. What was the value of y?

**Ans** ✗ 1. 8.5%

✗ 2. 7.5%

✓ 3. 8%

✗ 4. 7%

---

**Q.14** The first shirt is sold at twice the selling price of the second shirt. The first shirt is sold at 8% profit and the second shirt is sold at a 3% loss. What is the overall percentage profit on the shirts (Rounded off to two decimal place)?

**Ans** ✗ 1. 4.60%

✓ 2. 4.07%

✗ 3. 3.86%

✗ 4. 4.86%

**Q.15** Study the given bar-graph and answer the question that follows.

The bar-graph shows the higher secondary students of a school for the years 2008, 2009 and 2010.



| | 1st division | 2nd Division | 3rd Division | Fail |
|---|---|---|---|---|
| ■ 2008 | 20 | 60 | 60 | 30 |
| ■ 2009 | 30 | 60 | 50 | 50 |
| ■ 2010 | 40 | 60 | 70 | 30 |
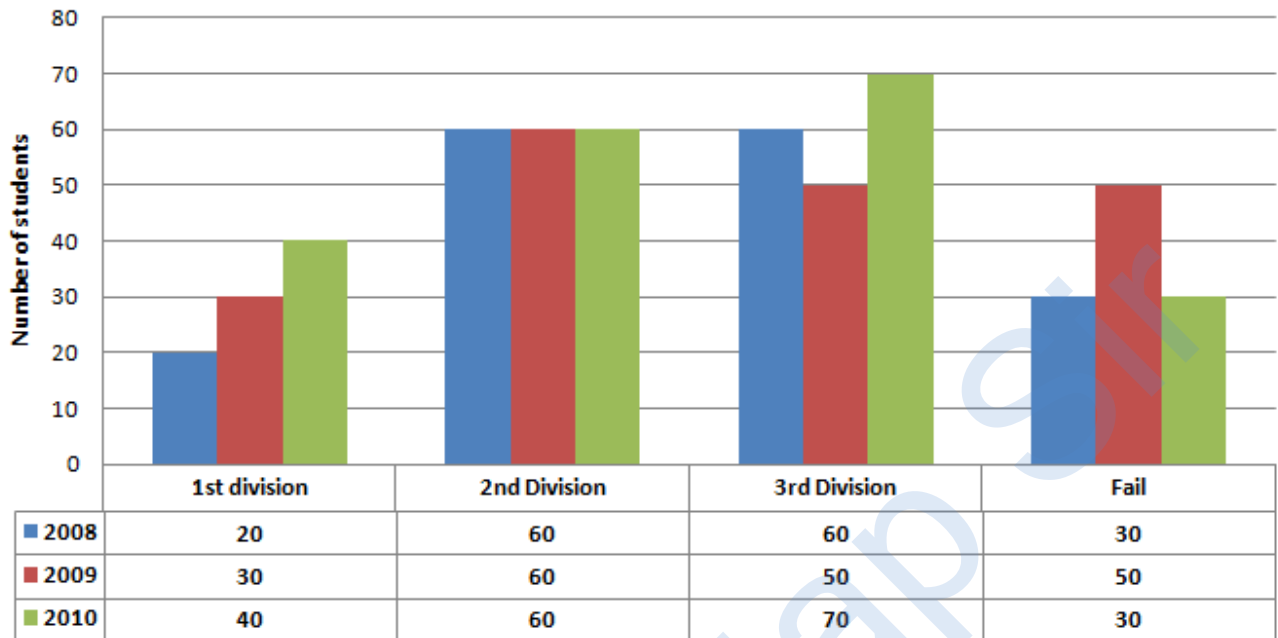
The percentage of students who passed in the second division in the year 2010 was:

Ans  ✗ 1. 28%

✗ 2. 32%

✗ 3. 25%

✔ 4. 30%

---

**Q.16** The largest number of four digits that is exactly divisible by 17 and 36 is:

Ans  ✗ 1. 8568

✗ 2. 9180

✔ 3. 9792

✗ 4. 7956

**Q.17** What is the central angle corresponding to the expenditure spent on Education in the given figure?



Amount spent on different expenditures

- Health
- Clothing
- Travelling
- Food
- Rent
- Education
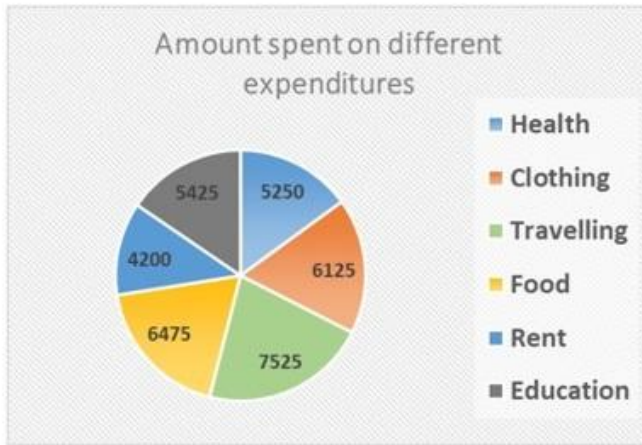
**Ans**

✗ 1. 42°

✗ 2. 52°

✗ 3. 55.2°

✓ 4. 55.8°

---

**Q.18** Two numbers are in the ratio 3 : 4. The product of their HCF and LCM is 2700. The sum of the numbers is:

**Ans**

✗ 1. 45

✓ 2. 105

✗ 3. 60

✗ 4. 15

---

**Q.19** The given pie-chart shows the distribution of the marks scored by Ram in five different subjects (in percentage).
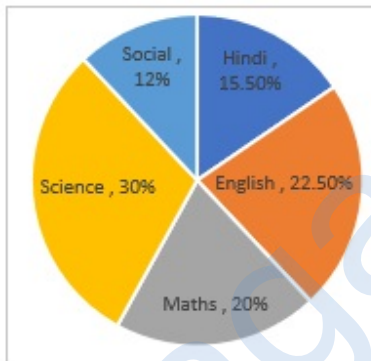


What is the ratio of the central angle of Maths to the central angle of Science?

**Ans**

✓ 1. 2 : 3

✗ 2. 4 : 3

✗ 3. 5 : 2

✗ 4. 3 : 5

---

**Q.20** If the hypotenuse of a right-angled triangle is 29 cm and the sum of the other two sides is 41 cm, then the difference between the other two sides is:

**Ans**

✗ 1. 2 cm

✗ 2. 5 cm

✗ 3. 10 cm

✓ 4. 1 cm

**Q.21** If the height of a cone is 7 cm and the diameter of the circular base is 12 cm, then its volume is (nearest to integer):

Ans
- ✓ 1. 264 cm$^3$
- ✗ 2. 284 cm$^3$
- ✗ 3. 274 cm$^3$
- ✗ 4. 254 cm$^3$

**Q.22** Study the given graph carefully and answer the question that follows.
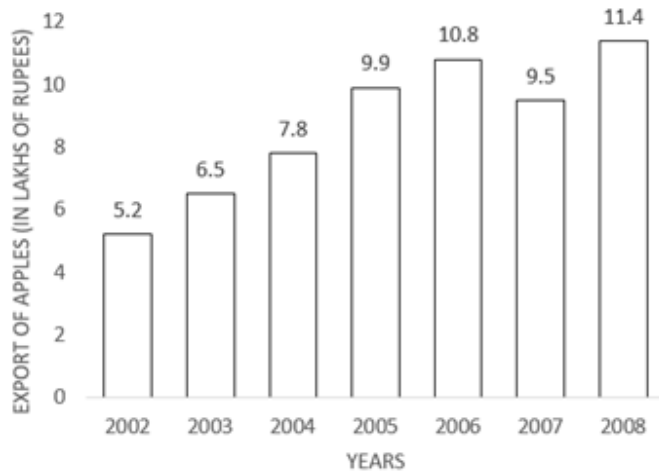


In which year was there maximum percentage increase in the export of apples to that of the previous years?

Ans
- ✗ 1. 2006
- ✗ 2. 2003
- ✓ 3. 2005
- ✗ 4. 2008

**Q.23** A, B and C can do a piece of work in 20 days, 30 days and 60 days respectively. If A works daily and on every third day B and C also work with A, then in how many days, will the work be completed?

Ans
- ✗ 1. 21
- ✗ 2. 12
- ✗ 3. 18
- ✓ 4. 15

**Q.24** A dishonest dealer announces selling his articles with 22% loss, but uses 35% lighter weights. What is the percentage of his profit or loss?

Ans
- ✗ 1. 13% loss
- ✓ 2. 20% profit
- ✗ 3. 20% loss
- ✗ 4. 13% profit

**Q.25** PQR is an equilateral triangle inscribed in a circle. S is any point on the arc QR. Measure of $\frac{1}{2}$ ∠PSQ is:

Ans
- ✓ 1. 30°
- ✗ 2. 60°
- ✗ 3. 15°
- ✗ 4. 20°

**Q.26** The value of 11 × 11 + 11 ÷ 11 - 11 × 11 + 11 + 11 × 11 - 11 - 11 × 11 is:

**Ans**
✗ 1. 121

✗ 2. 0

✗ 3. 11

✓ 4. 1

---

**Q.27** The product of two numbers is 726 and their HCF is 11, then their LCM is:

**Ans**
✗ 1. 68

✗ 2. 76

✓ 3. 66

✗ 4. 58

---

**Q.28** If 42, 36 and 35 are the first three terms of a proportion, then the fourth term is:

**Ans**
✓ 1. 30

✗ 2. 32

✗ 3. 28

✗ 4. 27

---

**Q.29** A man spends 72% of his salary and saves ₹5,740 per month. What is 10% of his annual salary (in ₹)?

**Ans**
✗ 1. ₹21600

✓ 2. ₹24600

✗ 3. ₹28400

✗ 4. ₹20500

---

**Q.30** If a + b = 10 and ab = 6, then the value of $a^3 + b^3$ is:

**Ans**
✗ 1. 860

✓ 2. 820

✗ 3. 800

✗ 4. 840

---

**Q.31** What is the area of a triangle whose sides are of lengths 12 cm, 13 cm and 5 cm?

**Ans**
✗ 1. 15 cm$^2$

✓ 2. 30 cm$^2$

✗ 3. 40 cm$^2$

✗ 4. 70 cm$^2$

---

**Q.32** If θ is an acute angle and sin θ + cosec θ = 2,then the value of $\sin^5\theta + \text{cosec}^5\theta$ is:

**Ans**
✓ 1. 2

✗ 2. 10

✗ 3. 4

✗ 4. 5

**Q.33** If $\dfrac{x}{y} + \dfrac{y}{x} = 1$ and $x + y = 2$, then the value of $x^3 + y^3$ is:

**Ans**
✓ 1. 0
✗ 2. 1
✗ 3. 3
✗ 4. 2

**Q.34** The radii of the ends of a frustum of a solid right-circular cone 45 cm high are 28 cm and 7 cm. If this frustum is melted and reconstructed into a solid right circular cylinder whose radius of base and height are in the ratio 3 : 5, find the curved surface area (in cm$^2$) of this cylinder. [Use $\pi = \dfrac{22}{7}$.]

**Ans**
✗ 1. 4610
✓ 2. 4620
✗ 3. 4580
✗ 4. 4640

**Q.35** Evaluate $\dfrac{0.04}{0.05}$ of $\dfrac{\left(3\frac{1}{3} - 2\frac{1}{2}\right) \div \frac{1}{2} \text{ of } 1\frac{1}{4}}{\frac{1}{3} + \frac{1}{5} \text{ of } \frac{1}{9}}$

**Ans**
✗ 1. 5
✗ 2. 0.3
✓ 3. 3
✗ 4. 0.03

**Q.36** If $\cos\theta - \sin\theta = \sqrt{2}\sin\theta$, then $(\cos\theta + \sin\theta)$ is:

**Ans**
✗ 1. $-\sqrt{2}\sin\theta$
✗ 2. $\sqrt{2}\tan\theta$
✓ 3. $\sqrt{2}\cos\theta$
✗ 4. $-\sqrt{2}\cos\theta$

**Q.37** Darjeeling gets tourists from two countries A and B. Percentage wise distribution of the influx of tourists is given below for the first six months of the year.

| Total number of tourists = 60000 | |
| --- | --- |
| Month | Ratio(A : B) |
| Jan | 5:7 |
| Feb | 6:7 |
| Mar | 3:2 |
| April | 8:7 |
| May | 4:5 |
| June | 3:4 |
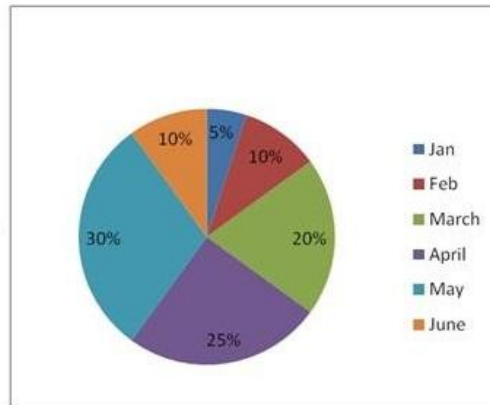


Find the ratio of tourists from country A coming in during March and April.

**Ans**
&#10007; 1. 3:7

&#10007; 2. 4:7

&#10007; 3. 7:10

&#10004; 4. 9:10

**Q.38** The sides of a triangle are in the ratio 5 : 12 : 13 and its perimeter is 90 cm. Find its area (in $cm^2$).

**Ans**
&#10004; 1. 270

&#10007; 2. 150

&#10007; 3. 30

&#10007; 4. 60

**Q.39** A tourist van travels the distance of 35 km from Dehradun to Mussoorie at an average speed of 36 km/h and returns at 60 km/h. What is the approximate average speed (in km/h) of the tourist van for the entire journey?

**Ans**
&#10004; 1. 45

&#10007; 2. 48

&#10007; 3. 50

&#10007; 4. 42

**Q.40** Let the speed of the boat in still water be 17 km/h and let the speed of the stream be 5 km/h. What is the time taken by the boat to go 110 km downstream?

**Ans**
&#10004; 1. 5 hours

&#10007; 2. 5.5 hours

&#10007; 3. 6 hours

&#10007; 4. 4.5 hours

**Q.41** If the price item is increased by 70% and then allows a scheme discount of 5% and 20% on this marked price. If price is paid in cash and additional discount of 20% is allowed then what is his gain percentage?

**Ans**
&#10007; 1. 2.25%

&#10007; 2. 3.25%

&#10007; 3. 4.36%

&#10004; 4. 3.36%

**Q.42** Rajesh invested ₹10,000 by dividing it into two different investment schemes, A and B, at simple interest rates of 8% and 10%, respectively. If the total interest earned in 2 years is ₹1,680, the amount invested in scheme A is:

Ans
✗ 1. ₹4,000

✗ 2. ₹2,000

✗ 3. ₹6,000

✓ 4. ₹8,000

**Q.43** The following data gives a year-wise outlay (in lakhs of rupees) in a certain 4-year plan (2018-2022) of a state.

| Year | Health | Housing | Transport | Education |
|---|---|---|---|---|
| 2018-2019 | 6200 | 6500 | 7100 | 8000 |
| 2019-2020 | 7000 | 6600 | 7200 | 8100 |
| 2020-2021 | 7300 | 6800 | 7400 | 8200 |
| 2021-2022 | 7400 | 7000 | 7500 | 8400 |

What was the percentage increase during 2020-2021 over 2018-2019 in Education outlay?

Ans
✗ 1. 2.8%

✓ 2. 2.5%

✗ 3. 3.2%

✗ 4. 2.0%

**Q.44** The HCF and the LCM of two numbers are 5 and 175, respectively. If the ratio of the two numbers is 5:7, the larger of the two numbers is _____.

Ans
✗ 1. 75

✓ 2. 35

✗ 3. 45

✗ 4. 25

**Q.45**

If $\tan A = \dfrac{4}{3}$, $0 \le A \le 90°$, then find the value of $\sin A$.

Ans
✗ 1. $\dfrac{3}{5}$

✗ 2. $\dfrac{3}{4}$

✓ 3. $\dfrac{4}{5}$

✗ 4. 1

**Q.46** Jonathan had borrowed a sum of money 3 years ago at 10% interest per annum compounded annually for a 5-year period, with the amount to be paid at the end of the period being ₹1,61,051. However, there is no pre-payment penalty and Jonathan has received some bonus payment now, with which he has decided to clear his debt. How much does Jonathan have to pay now to clear his debt?

Ans
✓ 1. ₹1,33,100

✗ 2. ₹1,33,200

✗ 3. ₹1,33,000

✗ 4. ₹1,32,900

**Q.47** A man runs for 40 km. The time taken by him in the first 10 km is twice the time taken by him in the second 10 km. The time taken in the third 10 km is half of the time taken in the fourth 10 km, and the time taken in the fourth 10 km is equal to the time taken in the first 10 km. If his speed in the first 10 km is 40 km/h, then what is the average speed for 40 km?

**Ans**

✓ 1. $\dfrac{160}{3}$ km/h

✗ 2. $\dfrac{70}{3}$ km/h

✗ 3. 50 km/h

✗ 4. 40 km/h

---

**Q.48** Two numbers are in the ratio 5:3 and the difference between these two numbers is 34. Find the smaller of the two numbers.

**Ans**
✗ 1. 68

✗ 2. 34

✓ 3. 51

✗ 4. 85

---

**Q.49** Two circles of radius 13 cm and 15 cm intersect each other at points A and B. If the length of the common chord is 12 cm, then what is the distance between their centres?

**Ans**

✗ 1. $\sqrt{145} + \sqrt{184}$

✗ 2. $\sqrt{131} + \sqrt{181}$

✗ 3. $\sqrt{145} + \sqrt{169}$

✓ 4. $\sqrt{133} + \sqrt{189}$

---

**Q.50** If 3 goats or 5 sheep can graze a field in 54 days, then in how many days can 6 goats and 8 sheep graze the same field?

**Ans**
✗ 1. 12

✗ 2. 10

✗ 3. 8

✓ 4. 15

---

**Q.1** Select the INCORRECTLY spelt word from the underlined words in the following sentence.
This was a <u>blatent</u> <u>disregard</u> to the <u>advisory</u> by the host against it and in <u>violation</u> of norms of the meeting.

**Ans**
✗ 1. violation

✗ 2. disregard

✗ 3. advisory

✓ 4. blatent

**Q.2** Select the option that can be used as a one-word substitute for the given group of words.
Working or operating quickly and effectively in an organised way

**Ans** ✗ 1. Effusive

✗ 2. Extensive

✗ 3. Excellent

✓ 4. Efficient

**Q.3** Parts of the following sentence have been given as options. Select the option that contains an error.
The dancers swayed dainty on the stage last night.

**Ans** ✓ 1. swayed dainty

✗ 2. The dancers

✗ 3. last night

✗ 4. on the stage

**Q.4** Select the most appropriate meaning of the underlined idiom.

Students often <u>burn the midnight oil</u> to qualify for competitive examinations.

**Ans** ✗ 1. sleep well

✓ 2. work until late at night

✗ 3. want to be at a place full of light

✗ 4. put the things on fire at night

**Q.5** Select the most appropriate ANTONYM for the highlighted word.
The negligent attitude of the cops was criticised.

**Ans** ✗ 1. bored

✗ 2. amplify

✗ 3. reluctant

✓ 4. attentive

**Q.6** Select the most appropriate meaning of the given idiom.

**An arm and a leg**

**Ans** ✗ 1. To be lost and bewildered

✗ 2. To ask for too much

✓ 3. A large amount of money

✗ 4. Everything is ready

**Q.7** Select the most appropriate synonym of the given word.
Dreadful

**Ans** ✗ 1. Propitious

✓ 2. Terrible

✗ 3. Auspicious

✗ 4. Feeble

**Q.8** Select the INCORRECTLY spelt word.

**Ans** ✗ 1. Allure

✗ 2. Adjacent

✓ 3. Agregate

✗ 4. Accomplish

**Q.9** Select the most appropriate one-word substitution of the given group of words.

A person engaged in or trained for spaceflight.

Ans ✗ 1. Astronomer

✗ 2. Atrocious

✗ 3. Astute

✓ 4. Astronaut

**Q.10** Select the most appropriate ANTONYM of the given word.
Damp

Ans ✗ 1. Misty

✓ 2. Arid

✗ 3. Tropical

✗ 4. Soaked

**Q.11** Select the INCORRECTLY spelt word.

Ans ✓ 1. Comparsion

✗ 2. Triumph

✗ 3. Serene

✗ 4. Unveil

**Q.12** Select the most appropriate meaning of the underlined idiom.
We <u>dodged a bullet</u> when we didn't fall for the agents' words.

Ans ✗ 1. To be out of your comfort zone

✗ 2. To give something a try

✓ 3. To narrowly avoid situation

✗ 4. To start performing better

**Q.13** Select the option that can be used as a one-word substitute for the underlined group of words.

Ms. Scarlet was <u>indifferent to pain and pleasure</u>, she never complained.

Ans ✗ 1. Hypocrite

✗ 2. Versatile

✗ 3. Amateur

✓ 4. Stoic

**Q.14** The following sentence has been split into four segments. Identify the segment that contains a spelling error.
He wrote his dairy / in code / so that nobody / could understand it.

Ans ✗ 1. so that nobody

✗ 2. could understand it

✓ 3. He wrote his dairy

✗ 4. in code

**Q.15** Select the most appropriate synonym of the given word.

Site

Ans ✓ 1. Location

✗ 2. Globe

✗ 3. Pull

✗ 4. Lap

**Q.16** Select the most appropriate meaning of the given idiom.
**Bend over backwards**

**Ans** ✅ 1. Working hard to try to impress

❌ 2. Going backward

❌ 3. Using wrongful means

❌ 4. Working slowly and lazily

**Q.17** Select the option that can be used as a one-word substitute for the underlined group of words.

How did you become interested in learning the art of producing beautiful handwriting?

**Ans** ✅ 1. Calligraphy

❌ 2. Lexicography

❌ 3. Graphology

❌ 4. Demography

**Q.18** Select the word which means the same as the group of words underlined in the given sentence.

The pandemic deeply affected small business owners, as they have no means of livelihood left.

**Ans** ❌ 1. Worker

❌ 2. Mason

✅ 3. Pauper

❌ 4. Unemployed

**Q.19** Select the option that can substitute the bracketed word segment correctly and complete the following sentence meaningfully.
Lots of kids (was visualised) crossing the road when the bus arrived.

**Ans** ❌ 1. have been seen

❌ 2. was seen

❌ 3. are seen

✅ 4. were seen

**Q.20** Select the most appropriate meaning of the underlined idiom in the given sentence.
I hate to get off on the wrong foot.

**Ans** ✅ 1. To start a relationship or activity badly

❌ 2. To start something with an injury on the wrong foot

❌ 3. To start something with neutral factors

❌ 4. To start something with positive factors

**Q.21** Select the INCORRECTLY spelt word.

**Ans** ❌ 1. Deserve

❌ 2. Interrogate

❌ 3. Alienate

✅ 4. Assasinate

**Q.22** Select the most appropriate one-word substitution of the given group of words.

A notice of the death of a person, often with a biographical sketch, as in a newspaper.

**Ans** ✅ 1. Obituary

❌ 2. Elegy

❌ 3. Oblivion

❌ 4. Advertisement

**Q.23** Select the most appropriate ANTONYM of the given word.

**Catastrophic**

Ans ✗ 1. Calamity

✗ 2. Sabotage

✗ 3. Fiasco

✓ 4. Fortuitous

**Q.24** Parts of the following sentence have been given as options. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

**We feed the horse oats for a week because it had eaten all the hay.**

Ans ✗ 1. No error

✗ 2. it had eaten all the hay

✗ 3. for a week because

✓ 4. We feed the horse oats

**Q.25** The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

**She will have participate / in the dance competition / by the time her father / returns from the tour.**

Ans ✗ 1. in the dance competition

✗ 2. by the time her father

✓ 3. She will have participate

✗ 4. returns from the tour

**Q.26** Select the most appropriate meaning of the given idiom.

**A leopard can't change his spots**

Ans ✗ 1. A visual presentation is far more descriptive than words

✗ 2. Something good that isn't recognised at first

✓ 3. You cannot change who you are

✗ 4. Someone who is cherished above all others

**Q.27** Select the most appropriate synonym of the given word.

**Haphazard**

Ans ✗ 1. Sociable

✗ 2. Confident

✓ 3. Random

✗ 4. Aggressive

**Q.28** Select the most appropriate synonym of the given word.
**Justifiable**

Ans ✗ 1. Indefensible

✓ 2. Reasonable

✗ 3. Neutral

✗ 4. Maintainable

**Q.29** Select the most appropriate meaning of the given idiom.
**The best of both worlds**

Ans
✗ 1. Better to show than tell

✗ 2. Good things come after bad things

✗ 3. Make people comfortable

✓ 4. An ideal situation

---

**Q.30** Select the most appropriate meaning of the underlined idiom.
**More people in Turkey are <u>on the breadline</u> now than thirty years ago.**

Ans
✗ 1. Earn a lot of money

✗ 2. Be very expensive

✓ 3. Be very poor

✗ 4. Are well educated

---

**Q.31** Select the option that can be used as a one-word substitute for the given group of words.

**Fear of water**

Ans
✓ 1. Hydrophobia

✗ 2. Botanophobia

✗ 3. Bibliophobia

✗ 4. Microphobia

---

**Q.32** You are preparing a speech for the upcoming function. Select a synonym for the highlighted word to make it better.
**Despite the advancement in technology many rural areas in developing countries still lack access to basic necessities.**

Ans
✓ 1. Avenue

✗ 2. Desist

✗ 3. Apathy

✗ 4. Disguise

---

**Q.33** Select the option that will improve the underlined part of the given sentence.
**<u>The use of chemicals, insecticides and pesticides</u> began after the Green Revolution.**

Ans
✗ 1. A practice of chemicals, insecticides and pesticides

✗ 2. The custom of chemicals, insecticides and pesticides

✗ 3. Consumption of chemicals, insecticides and pesticides

✓ 4. The usage of chemicals, insecticides and pesticides

---

**Q.34** Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.
**Her paintings are way better <u>then</u> her sketches.**

Ans
✗ 1. more

✗ 2. No substitution required

✓ 3. than

✗ 4. off

---

**Q.35** Select the most appropriate synonym of the given word.
**Abandon**

Ans
✗ 1. Perish

✗ 2. Retain

✗ 3. Prolong

✓ 4. Desert

**Q.36** The following sentence has been split into four segments. Identify the segment that contains a grammatical error.
They will not attend / the event / as they're going / away at end of April.

**Ans**
  ✗ 1. They will not attend

  ✓ 2. away at end of April.

  ✗ 3. as they're going

  ✗ 4. the event

---

**Q.37** Select the most appropriate idiomatic expression that can substitute the underlined segment in the given sentence.
Both Nitin and Uday are <u>of the same interests</u>.

**Ans**
  ✗ 1. blowing smoke without fire

  ✓ 2. birds of the same feather

  ✗ 3. different kettles of fish

  ✗ 4. under the weather

---

**Q.38** Select the most appropriate meaning of the given idiom.

**Left out in the cold**

**Ans**
  ✗ 1. To leave in hurry

  ✗ 2. To bear extreme weather condition

  ✗ 3. To serve stale and cold food

  ✓ 4. To be ignored

---

**Q.39** Select the most appropriate ANTONYM of the word 'moving' in the given sentence and choose the correct option.

**The old grandfather clock chimed loudly, marking the passage of time with its steady tick-tock.**

**Ans**
  ✓ 1. Steady

  ✗ 2. Passage

  ✗ 3. Chimed

  ✗ 4. Marking

---

**Q.40** Select the most appropriate phrasal verb to fill in the blank.
Arunima _____ a lot during her vacation time.

**Ans**
  ✗ 1. gets on

  ✓ 2. gets about

  ✗ 3. gets along

  ✗ 4. gets after

---

**Comprehension:**

In the following passage some words have been deleted. Read the passage carefully and select the most appropriate option for each blank.

The Amazon rainforest is an awe-inspiring natural wonder that (1)_____ across several South American countries, including Brazil, Peru, Colombia, and Ecuador. Covering an (2)_____ area of 5.5 million square kilometres, it is the largest tropical rainforest on Earth. The Amazon jungle is (3)_____ for its remarkable biodiversity, harbouring an astonishing array of plant and animal species that are still being discovered and studied. The dense vegetation of the jungle creates a (4)_____ and complex ecosystem, supporting countless species and providing crucial ecosystem services such as carbon sequestration and climate regulation. It is also home to (5)_____ communities that have thrived within its rich confines for centuries, preserving their traditions and deep connection to the land.

**SubQuestion No : 41**

**Q.41** Select the most appropriate option to fill in blank number 1.

**Ans**
  ✗ 1. reaches

  ✗ 2. amounts

  ✗ 3. lengths

  ✓ 4. spans

**Comprehension:**

In the following passage some words have been deleted. Read the passage carefully and select the most appropriate option for each blank.

The Amazon rainforest is an awe-inspiring natural wonder that (1)_____ across several South American countries, including Brazil, Peru, Colombia, and Ecuador. Covering an (2)_____ area of 5.5 million square kilometres, it is the largest tropical rainforest on Earth. The Amazon jungle is (3)_____ for its remarkable biodiversity, harbouring an astonishing array of plant and animal species that are still being discovered and studied. The dense vegetation of the jungle creates a (4)_____ and complex ecosystem, supporting countless species and providing crucial ecosystem services such as carbon sequestration and climate regulation. It is also home to (5)_____ communities that have thrived within its rich confines for centuries, preserving their traditions and deep connection to the land.

**SubQuestion No : 42**

Q.42 Select the most appropriate option to fill in blank number 2.

Ans ✅ 1. estimated

❌ 2. evaluated

❌ 3. rated

❌ 4. gauged

---

**Comprehension:**

In the following passage some words have been deleted. Read the passage carefully and select the most appropriate option for each blank.

The Amazon rainforest is an awe-inspiring natural wonder that (1)_____ across several South American countries, including Brazil, Peru, Colombia, and Ecuador. Covering an (2)_____ area of 5.5 million square kilometres, it is the largest tropical rainforest on Earth. The Amazon jungle is (3)_____ for its remarkable biodiversity, harbouring an astonishing array of plant and animal species that are still being discovered and studied. The dense vegetation of the jungle creates a (4)_____ and complex ecosystem, supporting countless species and providing crucial ecosystem services such as carbon sequestration and climate regulation. It is also home to (5)_____ communities that have thrived within its rich confines for centuries, preserving their traditions and deep connection to the land.

**SubQuestion No : 43**

Q.43 Select the most appropriate option to fill in blank number 3.

Ans ❌ 1. acclaimed

❌ 2. great

✅ 3. renowned

❌ 4. pre-eminent

---

**Comprehension:**

In the following passage some words have been deleted. Read the passage carefully and select the most appropriate option for each blank.

The Amazon rainforest is an awe-inspiring natural wonder that (1)_____ across several South American countries, including Brazil, Peru, Colombia, and Ecuador. Covering an (2)_____ area of 5.5 million square kilometres, it is the largest tropical rainforest on Earth. The Amazon jungle is (3)_____ for its remarkable biodiversity, harbouring an astonishing array of plant and animal species that are still being discovered and studied. The dense vegetation of the jungle creates a (4)_____ and complex ecosystem, supporting countless species and providing crucial ecosystem services such as carbon sequestration and climate regulation. It is also home to (5)_____ communities that have thrived within its rich confines for centuries, preserving their traditions and deep connection to the land.

**SubQuestion No : 44**

Q.44 Select the most appropriate option to fill in blank number 4.

Ans ✅ 1. vibrant

❌ 2. vigour

❌ 3. spirited

❌ 4. lavish

**Comprehension:**

In the following passage some words have been deleted. Read the passage carefully and select the most appropriate option for each blank.

The Amazon rainforest is an awe-inspiring natural wonder that (1)_____ across several South American countries, including Brazil, Peru, Colombia, and Ecuador. Covering an (2)_____ area of 5.5 million square kilometres, it is the largest tropical rainforest on Earth. The Amazon jungle is (3)_____ for its remarkable biodiversity, harbouring an astonishing array of plant and animal species that are still being discovered and studied. The dense vegetation of the jungle creates a (4)_____ and complex ecosystem, supporting countless species and providing crucial ecosystem services such as carbon sequestration and climate regulation. It is also home to (5)_____ communities that have thrived within its rich confines for centuries, preserving their traditions and deep connection to the land.

**SubQuestion No : 45**

**Q.45   Select the most appropriate option to fill in blank number 5.**

**Ans**   ✔ 1. indigenous

   ✘ 2. ancient

   ✘ 3. late

   ✘ 4. organic

---

**Comprehension:**

Read the given passage and answer the question that follows.

We started our research into organisational and personal excellence by studying a slightly different topic. We figured that if we could learn why certain people were more effective than others, then we could learn exactly what they did, clone it and pass it on to others. We asked people to identify who they thought were their most effective colleagues. In fact, over the past twenty-five years, we have asked over twenty thousand people to identify the individuals in their organisations who could really get things done. We wanted to find those who were not just influential but who were far more influential than the rest.

**SubQuestion No : 46**

**Q.46   Select the most suitable structure for the above passage.**

**Ans**   ✔ 1. Pragmatic

   ✘ 2. Cause and Effect

   ✘ 3. Compare and contrast

   ✘ 4. Chronological

---

**Comprehension:**

Read the given passage and answer the question that follows.

We started our research into organisational and personal excellence by studying a slightly different topic. We figured that if we could learn why certain people were more effective than others, then we could learn exactly what they did, clone it and pass it on to others. We asked people to identify who they thought were their most effective colleagues. In fact, over the past twenty-five years, we have asked over twenty thousand people to identify the individuals in their organisations who could really get things done. We wanted to find those who were not just influential but who were far more influential than the rest.

**SubQuestion No : 47**

**Q.47   Select the most appropriate title to the given passage.**

**Ans**   ✘ 1. Different Topics

   ✘ 2. Learn, Clone and Pass

   ✔ 3. Most Effective Colleagues

   ✘ 4. Research Grants in Organisations

**Comprehension:**

Read the given passage and answer the question that follows.

We started our research into organisational and personal excellence by studying a slightly different topic. We figured that if we could learn why certain people were more effective than others, then we could learn exactly what they did, clone it and pass it on to others. We asked people to identify who they thought were their most effective colleagues. In fact, over the past twenty-five years, we have asked over twenty thousand people to identify the individuals in their organisations who could really get things done. We wanted to find those who were not just influential but who were far more influential than the rest.

**SubQuestion No : 48**

**Q.48  Select the statement that most appropriately sums up the passage given.**

**Ans**  ✗ 1. It takes 25 years of research to make people more effective and influential.

✗ 2. Some people cannot be identified due to their most effective ways in 25 years.

✗ 3. Research grants in an organisation should be increased for personal excellence.

✔ 4. Some people are more effective and more influential than others to get things done.

---

**Comprehension:**

Read the given passage and answer the question that follows.

We started our research into organisational and personal excellence by studying a slightly different topic. We figured that if we could learn why certain people were more effective than others, then we could learn exactly what they did, clone it and pass it on to others. We asked people to identify who they thought were their most effective colleagues. In fact, over the past twenty-five years, we have asked over twenty thousand people to identify the individuals in their organisations who could really get things done. We wanted to find those who were not just influential but who were far more influential than the rest.

**SubQuestion No : 49**

**Q.49  Select the most appropriate ANTONYM of the given word.**

**Effective**

**Ans**  ✗ 1. Courteous

✗ 2. Harmonious

✗ 3. Deniable

✔ 4. Fruitless

---

**Comprehension:**

Read the given passage and answer the question that follows.

We started our research into organisational and personal excellence by studying a slightly different topic. We figured that if we could learn why certain people were more effective than others, then we could learn exactly what they did, clone it and pass it on to others. We asked people to identify who they thought were their most effective colleagues. In fact, over the past twenty-five years, we have asked over twenty thousand people to identify the individuals in their organisations who could really get things done. We wanted to find those who were not just influential but who were far more influential than the rest.

**SubQuestion No : 50**

**Q.50  Which real life situation can be the most appropriate to be inferred from the passage?**

**Ans**  ✔ 1. Jassie is an efficient employee whose work ethics can be a case study to learn more about organisational and personal excellence.

✗ 2. People nowadays do not have patience and want quick success and does not matter what path they choose to obtain their targets.

✗ 3. If we do something wrong to decent people, the same comes to haunt us even after many years.

✗ 4. Inflation has direct influence on the morals and ethics of an individual.

**Q.1** Seven friends, A, B, C, D, E, F and G, are sitting around a circular table facing the centre (not necessarily in the same order). D is an immediate neighbour of B and C. A is sitting third to the right of C. E is an immediate neighbour of A and F. G is sitting immediate left of C. B is sitting third to the right of G. What is the position of G with respect to A when counted from the right side of A?

**Ans**   ✔ 1. Third to the right

✘ 2. Second to the right
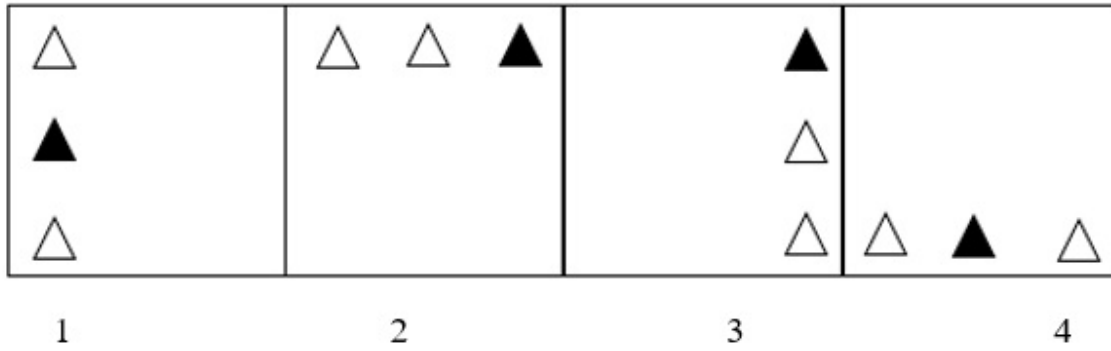
✘ 3. Second to the left

✘ 4. Third to the left

**Q.2** Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
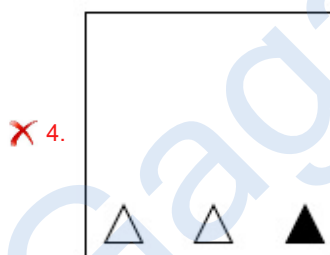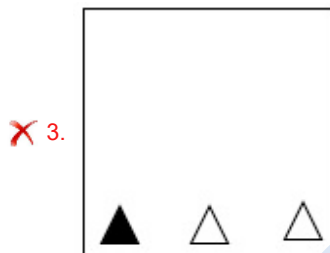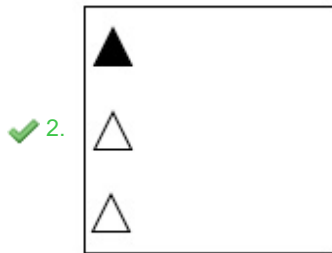
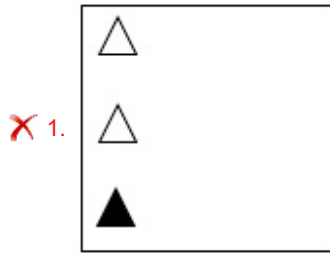**(13, 104, 16), (9, 63, 14)**

**Ans**   ✘ 1. (23, 204, 26)

✘ 2. (12, 85, 15)

✘ 3. (10, 92, 17)

✔ 4. (8, 60, 15)

**Q.3** Which of the given figures when placed in the 5th position would continue the series that is established by the first four figures?



1          2          3          4

**Ans**

✗ 1. 

✔ 2. 

✗ 3. 

✗ 4. 

**Q.4** A paper is folded and cut as shown below. How will it appear when unfolded?



Ans

✗ 1.



✗ 2.



✔ 3.



✗ 4.
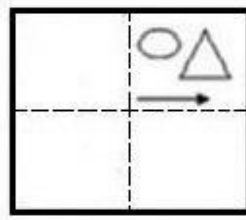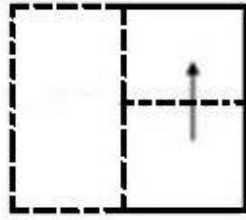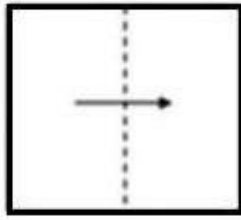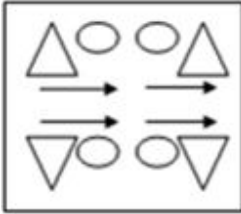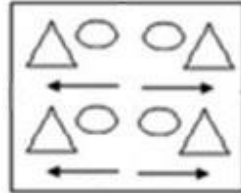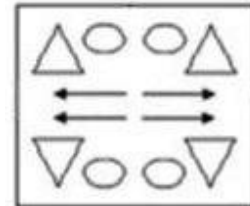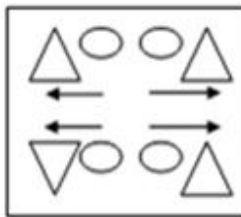


**Q.5** In a certain code language, 'COUNTY' is written as 'ULCYGN' and 'FOREST' is written as 'RLFTHE'. How will 'MARGIN' be written in that language?

Ans    ✔ 1. RZMNRG

✗ 2. ZMMRGI

✗ 3. ZMTPRH

✗ 4. RJMDSZ

**Q.6** Select the option figure in which the given figure is embedded (rotation is NOT allowed).



**Ans**

✗ 1.


✓ 2.


✗ 3.


✗ 4.


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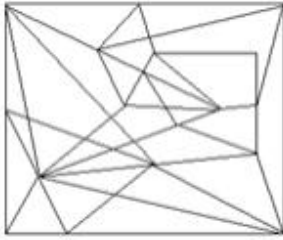
**Q.7** Which of the following numbers will replace the question mark (?) in the given series?
91, 111, 133, ?, 183, 211

**Ans** ✓ 1. 157

✗ 2. 156

✗ 3. 167

✗ 4. 149

---

**Q.8** Two statements are given followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.
**Statements:**
Some shells are pebbles.
All pebbles are rocks.
**Conclusions:**
I. No shell is a rock.
II. Some shells are rocks.

**Ans** ✗ 1. Both conclusions I and II follow

✗ 2. Only conclusion I follows

✗ 3. Neither conclusion I nor II follows

✓ 4. Only conclusion II follows

**Q.9** PRO 5' is related to 'OSQ 15' in a certain way. In the same way, 'OPO 10' is related to 'NQQ 30'. Which of the following is related to 'MAC 9' using the same logic?

**Ans**
✓ 1. NZA 3

✗ 2. NZA 27

✗ 3. OZA 3

✗ 4. NZB 3

**Q.10** In a certain code language, 'OIL' is coded as 27 and 'CREAM' is coded as 125. How will 'POWDER' be coded in the same language?

**Ans**
✗ 1. 198

✗ 2. 169

✗ 3. 225

✓ 4. 216

**Q.11** Which letter-cluster will replace the question mark (?) to complete the given series?
MMNO, OKPM, ?, SGTI, UEVG

**Ans**
✓ 1. QIRK

✗ 2. POKI

✗ 3. PQIJ

✗ 4. QRIL

**Q.12** Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)
Nun : Convent :: King : ?

**Ans**
✗ 1. Cottage

✓ 2. Palace

✗ 3. Monastery

✗ 4. Prison

**Q.13** Town Q is to the north of Town P. Town R is to the west of Town Q. Town S is to the north of Town R. Town T is to the east of Town S. What is the position of Town T with respect to Town R? (All positions are arranged in GRID pattern).

**Ans**
✗ 1. South

✗ 2. South-east

✗ 3. East

✓ 4. North-east

**Q.14** Which two signs should be interchanged to make the given equation correct?
13 + 145 ÷ 29 × 52 − 11 = 106

**Ans**
✗ 1. ÷ and +

✗ 2. − and ×

✗ 3. ÷ and −

✓ 4. x and +

**Q.15** In a certain code language, 'FRIGHT' is written as 'FOCQED' and 'SHREDS' is written as 'OEPPAB'. How will 'UPSETS' be written in that language?

**Ans**
✗ 1. PMSPQB

✗ 2. PMRSQB

✓ 3. PMRPQB

✗ 4. PMROQB

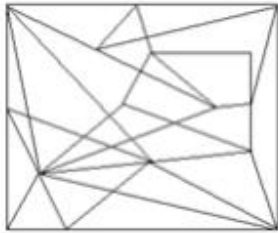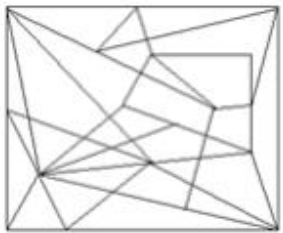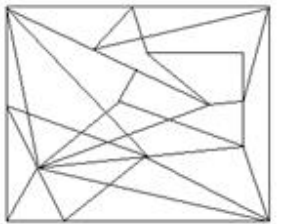**Q.16** Which of the following numbers will replace the question mark (?) in the given series?

90, 110, 132, ? , 182

Ans
X 1. 148

X 2. 169

✓ 3. 156

X 4. 146

---

**Q.17** Select the correct mirror image of the given figure, when the mirror is placed at line MN as shown.



Ans

X 1.


X 2.


✓ 3.


X 4.


---
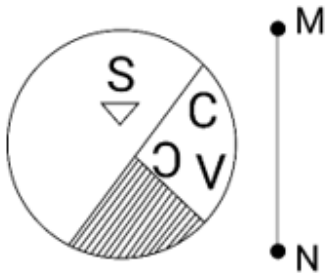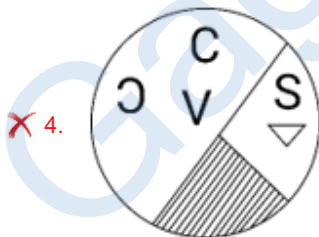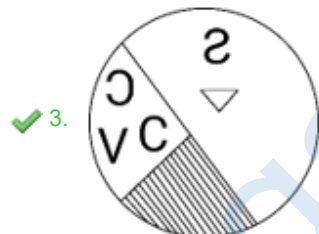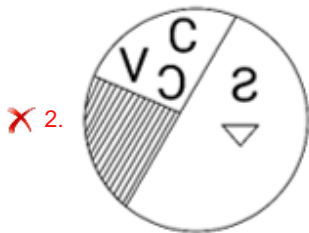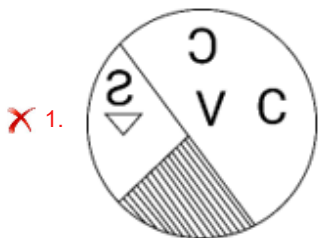
**Q.18** Shilpa goes to a park every day for walking. One morning, she started walking from her home and walked 40 km towards the north. Then she turned to the right and walked 60 km. Again, she turned right and walked 40 km. Lastly, she took a left turn and walked 30 km. How far is she from her home?

Ans
X 1. 60 km

X 2. 100 km

X 3. 140 km

✓ 4. 90 km

**Q.19** If I denotes '÷', J denotes '×', K denotes '−' and L denotes '+', then what will come in place of '?' in the following equation?

(35 I 5) J 9 K 23 L 39 K (3 J 8) = ?

**Ans** ✗ 1. 60

✗ 2. 59

✔ 3. 55

✗ 4. 51

---

**Q.20** Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)

(11, 33, 17), (18, 44, 21)

**Ans** ✔ 1. (16, 43, 22)

✗ 2. (12, 40, 18)

✗ 3. (15, 34, 19)

✗ 4. (7, 32, 9)

---

**Q.21** Select the option figure which is embedded in the given figure as its part (rotation is NOT allowed).
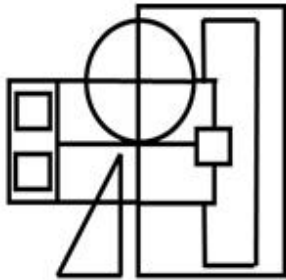


**Ans** ✗ 1. 

✗ 2. 

✔ 3. 

✗ 4. 

---

**Q.22** Three of the following letter-clusters are alike in some manner and one is different. Select the one that is different.

**Ans** ✗ 1. MRVY

✗ 2. NSWZ

✗ 3. GLPS

✔ 4. TGQJ

---

**Q.23** Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the odd letter-cluster.

**Ans** ✗ 1. SVRH

✔ 2. MJLO

✗ 3. FIEU

✗ 4. KNJZ

**Q.24** A paper is folded and cut as shown. How will it appear when unfolded?
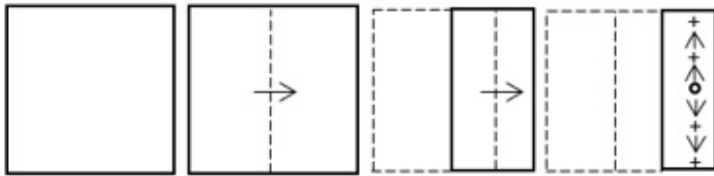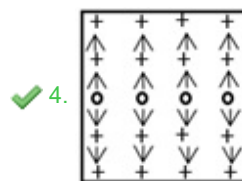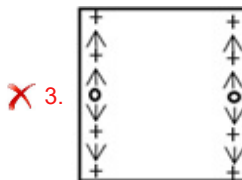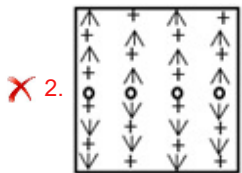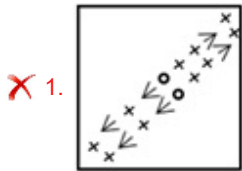


**Ans**

✗ 1. 

✗ 2. 

✗ 3. 

✔ 4. 

**Q.25** Which two mathematical signs should be interchanged to make the given equation correct?

(75 + 15) × 27 × 1 – 9 ÷ 7 × (135 + 3) – 10 ÷ (189 + 63) = 434

**Ans**  ✗ 1. × and +

✗ 2. + and –

✗ 3. ÷ and –

✔ 4. + and ÷

**Q.26** Select the option that represents the letters which, when sequentially placed from left to right in the blanks below, will complete the letter series.
A _ _ D F _ K _ _ F A _ L _ _

**Ans**  ✔ 1. K L A L D K D F

✗ 2. L A L K D F D K

✗ 3. F D L A K F D L

✗ 4. D L K L F A L D

**Q.27** Which figure from the given options would replace the question mark (?) if the following figure series were to be continued?

| R | 3 | A | □ | 9 | R | 3 | F | ☆ | □ | A | 3 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| O | F | 9 | 3 | F | ☆ | S | O | A | F | O | 9 | **?** |
| □ | ☆ | S | S | O | A | □ | 9 | R | R | S | ☆ | |

**Ans**

✗ 1.
| R | 9 | □ |
|---|---|---|
| A | O | S |
| ☆ | F | 3 |

✔ 2.
| F | O | 9 |
|---|---|---|
| R | S | ☆ |
| □ | A | 3 |

✗ 3.
| F | S | 9 |
|---|---|---|
| R | A | ☆ |
| □ | O | 3 |

✗ 4.
| R | S | ☆ |
|---|---|---|
| □ | A | 3 |
| F | O | 9 |

**Q.28** Select the option that represents the correct order of the given words as they would appear in an English dictionary?
1. Authority
2. Automate
3. Authentic
4. Auspicious
5. Aureole

**Ans** ✗ 1. 5, 3, 4, 1, 2

✗ 2. 3, 4, 5, 1, 2

✗ 3. 4, 5, 3, 1, 2

✔ 4. 5, 4, 3, 1, 2

**Q.29** In a certain code language, 'DOING' is written as 'BQTOV' and 'ZEBRA' is written as 'FAAKB'. How will 'STORM' be written in that language?

**Ans**
  ✗ 1. MKYTS

  ✓ 2. MLNKP

  ✗ 3. PETBK

  ✗ 4. PRYSK

**Q.30** In a certain code language, 'HIGHLY' is written as 'GRHYOH' and 'CLEVER' is written as 'EOCRVV'. How will 'HORROR' be written in that language?

**Ans**
  ✗ 1. JRLPDB

  ✗ 2. JPRDER

  ✗ 3. RKJPED

  ✓ 4. RLHRLR

**Q.31** Which of the following numbers will replace the question mark (?) and complete the given number series?
15, 19 , 21, 25 , 27, ?

**Ans**
  ✗ 1. 29

  ✗ 2. 30

  ✗ 3. 32

  ✓ 4. 31

**Q.32** Select the Venn diagram that best illustrates the relationship between the following classes.
Animals, Cats, Dogs

**Ans**

✗ 1.

✓ 2.

✗ 3.

✗ 4.

**Q.33** 'M $ K' means 'M is the mother of K'.
'M # K' means 'M is the father of K'.
'M @ K' means 'M is the husband of K'.
'M% K' means 'M is the daughter of K'.
If A $ C @ R, then how is R related to A?

**Ans**
  ✗ 1. Husband's father

  ✗ 2. Daughter

  ✗ 3. Mother

  ✓ 4. Son's wife

**Q.34** Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.

1. Formal
2. Foreign
3. Forest
4. Forgotten
5. Forge
6. Forlorn

**Ans** ✗ 1. 2, 3, 5, 6, 4, 1

✓ 2. 2, 3, 5, 4, 6, 1

✗ 3. 2, 3, 6, 1, 5, 4

✗ 4. 2, 3, 4, 5, 6, 1

---

**Q.35** If '+' means 'divided by', '–' means 'added to', '×' means 'subtracted from' and '÷' means 'multiplied by', then what will be the value of the following expression?

[{(25 × 13) - (3 ÷ 3)} + (3 - 4)] ÷ 5

**Ans** ✗ 1. 20

✓ 2. 15

✗ 3. 10

✗ 4. 5

---

**Q.36** Given below are two statements and two conclusions. Take the statements to be true even if they are at variance with commonly known facts, and decide whether the conclusion(s) follow(s) the given statements.
Statements:
Some cakes are biscuits.
Some biscuits are chocolates.
Conclusions:
I. Some biscuits are cakes.
II. Some cakes are chocolates.

**Ans** ✗ 1. Only conclusion II follows

✗ 2. Neither conclusion I nor II follows

✗ 3. Both the conclusions follow

✓ 4. Only conclusion I follows

---

**Q.37** Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13- Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
(15, 21, 66)
(9, 17, 44)

**Ans** ✗ 1. (7, 9, 86)

✗ 2. (2, 4, 12)

✗ 3. (11, 13, 35)

✓ 4. (5, 37, 52)

---

**Q.38** Which of the following numbers will replace the question mark (?) in the given series?
18, 27, 31, 43, 44, 59, 57, ?

**Ans** ✓ 1. 75

✗ 2. 82

✗ 3. 83

✗ 4. 74

**Q.39** A paper is folded and cut as shown below. How will it appear when unfolded?



**Ans**

✗ 1. 

✔ 2. 

✗ 3. 

✗ 4. 

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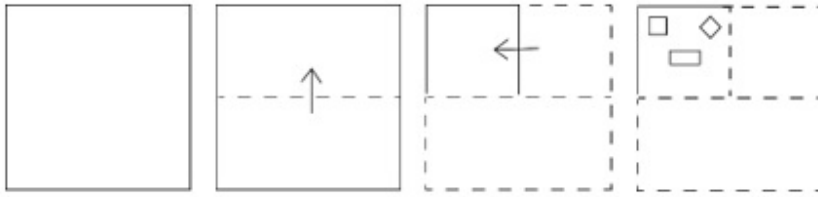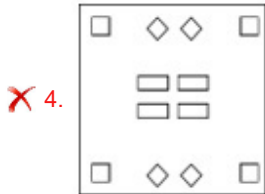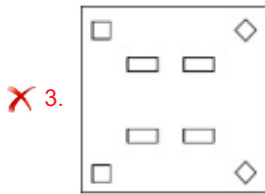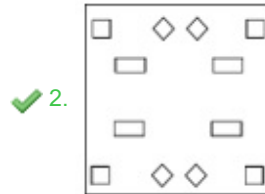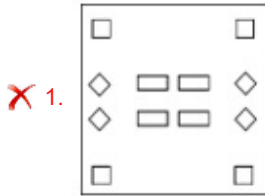
**Q.40** A @ B means 'A is the husband of B'
A & B means 'A is the mother of B'
A # B means 'A is the daughter of B'
If Q @ M & Y @ J # R & Z, then how is Y related to Z?

**Ans** ✗ 1. Father

✗ 2. Father's sister

✗ 3. Brother's wife

✔ 4. Sister's husband

---

**Q.41** Six students Meera, Jigyasa, Tarun, Naina, Shambhavi and Avni are sitting around a circular table facing the centre (not necessarily in the same order). Shambhavi is an immediate neighbour of both Jigyasa and Avni. Tarun is sitting third to the left of Jigyasa. Meera is sitting second to the right of Avni.
Who is sitting third to the right of Meera?

**Ans** ✔ 1. Shambhavi

✗ 2. Naina

✗ 3. Jigyasa

✗ 4. Avni

**Q.42** If M denotes '-', N denotes '÷', O denotes '×', and P denotes '+', then what will come in place of '?' in the following equation?
255 N 5 O 4 P 16 O 3 M 29 = ?

Ans   ✘ 1. 216

    ✔ 2. 223

    ✘ 3. 230

    ✘ 4. 211

**Q.43** Which two numbers (not digits) should be interchanged to make the given equation correct?

(18 × 2) − 24 + 10 × 160 ÷ 16 + (10 × 4) = 170

Ans   ✘ 1. 16 and 18

    ✘ 2. 2 and 4

    ✘ 3. 2 and 24

    ✔ 4. 24 and 18

**Q.44** If A denotes '+', B denotes '×', C denotes '−', and D denotes '÷', then what will be the value of the following equation?
13 B 7 A 64 D 4 C 23 = ?

Ans   ✘ 1. 76

    ✔ 2. 84

    ✘ 3. 82

    ✘ 4. 86

**Q.45** Select the figure that will come next in the following figure series.



**Ans**

✗ 1. 

✔ 2. 

✗ 3. 

✗ 4. 
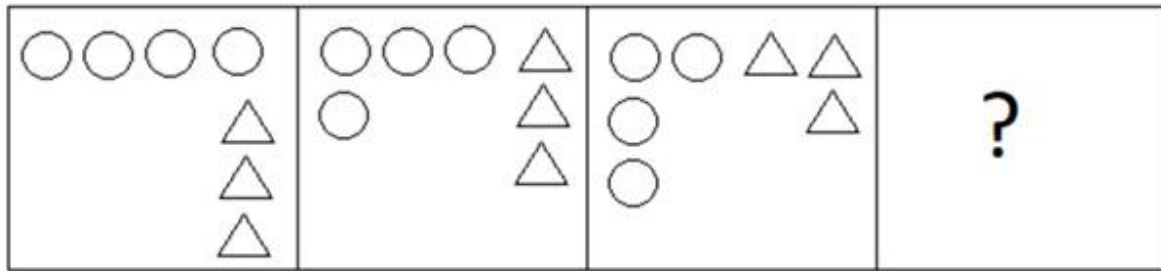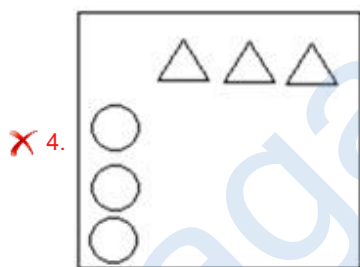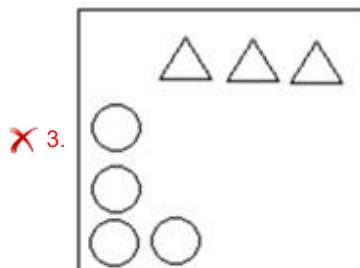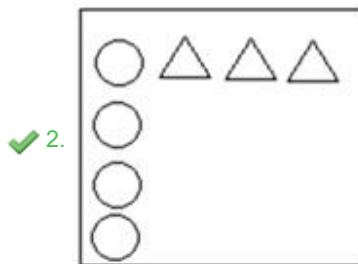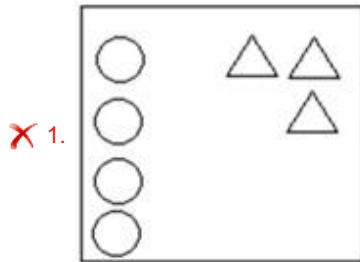
**Q.46** Which letter-cluster will complete the given series?
BHERZ, DGHTX, FFKVV, _____

**Ans**  ✗ 1. HENWT

✗ 2. HGMWU

✔ 3. HENXT

✗ 4. GGNXU

**Q.47** Three different positions of the same dice are shown. Find the number on the face opposite the face showing '5'.
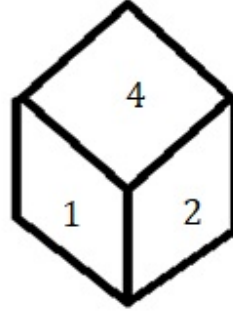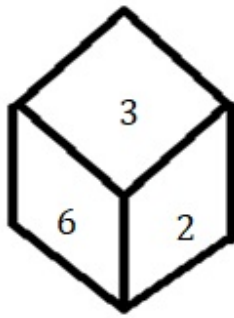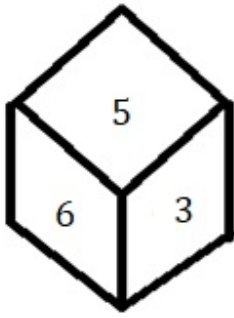


**Ans**
✗ 1. 4

✗ 2. 1

✗ 3. 3

✓ 4. 2

---

**Q.48** Select the set in which the numbers are related in the same way as are the numbers of the following set.

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)

(25, 3, 150)
(13, 7, 182)

**Ans**
✓ 1. (10,5,100)

✗ 2. (5,8,184)

✗ 3. (3,4,45)

✗ 4. (6,13,234)

---

**Q.49** Three Statements are given followed by Three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:
All valleys are mountains.
No sea is a mountain.
Some plains are seas.

Conclusions:
I. Some valleys are plains.
II. No plain is a mountain.
III. No sea is a valley.

**Ans**
✓ 1. Only conclusion III follows.

✗ 2. Only conclusion II follows.

✗ 3. Both conclusions I and II follow.

✗ 4. Only conclusion I follows.

**Q.50** Select the correct mirror image of the given combination when the mirror is placed at 'MN' as shown below.
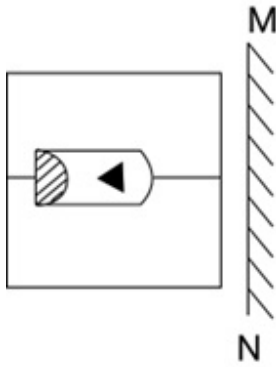


**Ans**



✔ 1.
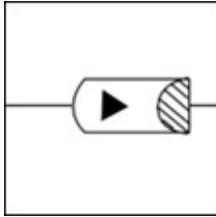


✘ 2.
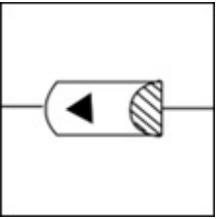


✘ 3.
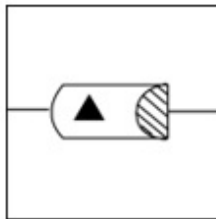


✘ 4.



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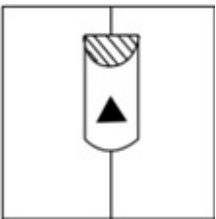
**Q.1** The Chambal, Hindon and Tons rivers are tributaries of the river:

**Ans** ✔ 1. Yamuna

✘ 2. Mahanadi

✘ 3. Kaveri

✘ 4. Tapi

---

**Q.2** What is the percentage of proteins in the cell membrane?

**Ans** ✘ 1. 80-100%

✘ 2. 20-40%

✘ 3. 60-80%

✔ 4. 40-60%

**Q.3** Who among the following was the youngest recipient of the Padma Vibhushan award in dance in 1984?

**Ans**
- ✗ 1. Rajendra Gangani
- ✗ 2. Abhimanyu Lal
- ✓ 3. Birju Maharaj
- ✗ 4. Ehshan Hilal

**Q.4** Which dance form of Goa is also known as the 'Warrior Dance'?

**Ans**
- ✗ 1. Lavani
- ✓ 2. Ghode Modni
- ✗ 3. Bihu
- ✗ 4. Rauf

**Q.5** The office of Diwan-i-Insha dealt with which affair in administration?

**Ans**
- ✗ 1. Military
- ✗ 2. Religious affairs
- ✗ 3. Finance
- ✓ 4. State correspondence

**Q.6** Ker and Garia Puja are traditional tribal festivals of which state?

**Ans**
- ✗ 1. Manipur
- ✗ 2. Jharkhand
- ✓ 3. Tripura
- ✗ 4. Odisha

**Q.7** Prabhat Sarma, a recipient of Sangeet Natak Akademi Award, was a _____ player from Assam.

**Ans**
- ✗ 1. Tabla
- ✗ 2. sarangi
- ✗ 3. Ghatam
- ✓ 4. Flute

**Q.8** Which Union Territory recorded the highest male literacy rate, according to the 2011 Census?

**Ans**
- ✓ 1. Lakshadweep
- ✗ 2. Delhi
- ✗ 3. Andaman and Nicobar Islands
- ✗ 4. Daman and Diu

**Q.9** Which of the following dances is based on Rasleela themes of Radha and Krishna?

**Ans**
- ✗ 1. Mohiniyattam
- ✗ 2. Kathak
- ✗ 3. Sattriya dance
- ✓ 4. Manipuri dance

**Q.10** Which of the following was the first B vitamin discovered in 1897 that is essential in amino acid and carbohydrate metabolism and is active in energy production reactions?

**Ans**
- ✓ 1. Thiamine
- ✗ 2. Folate
- ✗ 3. Riboflavin
- ✗ 4. Biotin

**Q.11**   During a game of hockey, following an offence, if a player is shown a yellow card then he will be sent off the pitch for
_____.

**Ans**   ✔ 1. 5 minutes

✘ 2. 3 minutes

✘ 3. 4 minutes

✘ 4. 6 minutes

**Q.12**   Which writ is issued when the court finds that there is unlawful arrest of a person?

**Ans**   ✘ 1. Mandamus

✘ 2. Quo warranto

✔ 3. Habeas corpus

✘ 4. Prohibition

**Q.13**   Syed Modi India International is organised in which sporting event?

**Ans**   ✘ 1. Volleyball

✔ 2. Badminton

✘ 3. Chess

✘ 4. Kabaddi

**Q.14**   Which British scientist is known for developing the principle of holography in 1947 to improve the resolution of the
electron microscope?

**Ans**   ✔ 1. Dennis Gabor

✘ 2. Charles Towns

✘ 3. Lloyd Cross

✘ 4. Werner Heisenberg

**Q.15**   The duration of the 12$^{th}$ five year plan was from _____ to _____.

**Ans**   ✘ 1. 1987 - 1992

✘ 2. 2007 - 2012

✔ 3. 2012 - 2017

✘ 4. 1990 - 1995

**Q.16**   Which of the following microfinance institutions was established in India at the time of independence?

**Ans**   ✘ 1. Self Help Group

✘ 2. Grameen Model Bank

✔ 3. Rural Cooperatives

✘ 4. Joint Liability Group

**Q.17**   In which of the following years was the Muslim League formed?

**Ans**   ✘ 1. 1909

✔ 2. 1906

✘ 3. 1912

✘ 4. 1915

**Q.18** Mawsynram, the place that receives the highest rainfall in the world, is situated in which hills?

**Ans** ✓ 1. Khasi Hills

✗ 2. Mishmi Hills

✗ 3. Patkai Hills

✗ 4. Rajmahal Hills

**Q.19** Copacabana beach is situated in _____.

**Ans** ✗ 1. Australia

✓ 2. Brazil

✗ 3. Peru

✗ 4. Mexico

**Q.20** Which of the following has been INCORRECTLY listed as a condition for becoming a citizen of India?

**Ans** ✗ 1. Citizenship by naturalisation

✗ 2. Citizenship by descent

✓ 3. Citizenship through acquisition of property

✗ 4. Citizenship by birth

**Q.21** Manisha Kalyan is associated with which of the following sports events?

**Ans** ✗ 1. Cricket

✓ 2. Football

✗ 3. Hockey

✗ 4. Chess

**Q.22** From which country has the concept of Martial Law, which restricts Fundamental rights, borrowed?

**Ans** ✗ 1. China

✓ 2. The UK

✗ 3. Japan

✗ 4. The USSR

**Q.23** Which of the following statements is correct?

**Ans** ✓ 1. The transport of male gametes in bryophytes and pteridophytes occurs through water.

✗ 2. The transport of male gametes in angiosperms occurs through water.

✗ 3. The transport of male gametes in bryophytes and pteridophytes occurs through air.

✗ 4. The transport of male gametes in Gymnosperms occurs through water.

**Q.24** Pandit Ravi Shankar popularised which instrument in particular all over the world?

**Ans** ✗ 1. Tabla

✗ 2. Veena

✓ 3. Sitar

✗ 4. Harmonium

**Q.25** Who among the following was the last Mauryan ruler and was killed by his commander-in-chief?

**Ans** ✗ 1. Dashratha

✓ 2. Brihadratha

✗ 3. Shatadhanvan

✗ 4. Bindusara

**Q.26** The fundamental duties were added in the Indian Constitution on the recommendation of the:

**Ans** ✗ 1. Bibek Debroy Committee

✗ 2. Balwant Rai Mehta Committee

✓ 3. Sardar Swaran Singh Committee

✗ 4. LM Singhvi Committee

**Q.27** Who is the author of the novel 'The Moor's Last Sigh'?

**Ans** ✗ 1. VS Naipaul

✗ 2. John Keay

✗ 3. Kiran Doshi

✓ 4. Salman Rushdie

**Q.28** In 1784, who discovered the composition of water through his experiment with hydrogen and oxygen?

**Ans** ✗ 1. Herbert C Brown

✗ 2. John Dalton

✓ 3. Henry Cavendish

✗ 4. Joseph Priestley

**Q.29** Which of the following is the correct statement?

**Ans** ✗ 1. The unit of power is joule/newton.

✓ 2. Joule is the unit of work

✗ 3. The unit of energy is the watt.

✗ 4. Joule/ second is also a unit of energy.

**Q.30** The earth's perihelion occurs in:

**Ans** ✗ 1. October

✓ 2. January

✗ 3. July

✗ 4. September

**Q.31** In India, which of the following modes of transportation reduces trans-shipment losses and delays in supply of petroleum and gas?

**Ans** ✗ 1. Waterways

✗ 2. Railways

✓ 3. Pipeline

✗ 4. Roadways

**Q.32** When was the Indian Meteorological Department,Which collects data on temperature, rainfall, wind, etc., and makes weather forecasts, established by the Government of India?

**Ans** ✗ 1. 1873

✗ 2. 1879

✗ 3. 1876

✓ 4. 1875

**Q.33** A government budget shows a primary deficit of ₹6,900 crore. The revenue expenditure on interest payment is ₹400 crore. Fiscal deficit is equal to:

Ans
- ❌ 1. ₹6,500 crore
- ❌ 2. ₹6,900 crore
- ❌ 3. ₹7,100 crore
- ✅ 4. ₹7,300 crore

**Q.34** Which of the following organisations was founded in Poona, Satara and other towns of Maharashtra that worked against Brahmanical orthodoxy and tried to reform Hinduism?

Ans
- ❌ 1. Brahmo Samaj
- ✅ 2. Paramahansa Mandali
- ❌ 3. Ramakrishna Mission
- ❌ 4. Arya Samaj

**Q.35** 'The Race of my Life' is the autobiography of which of the following sportsmen?

Ans
- ❌ 1. Mary Kom
- ❌ 2. PT Usha
- ✅ 3. Milkha Singh
- ❌ 4. Saurav Ganguly

**Q.36** Which company has been given the responsibility of construction, operation and maintenance of the Hazira-Vijaipur-Jagdishpur (HVJ) pipeline project?

Ans
- ❌ 1. Oil and Natural Gas Corporation (ONGC)
- ❌ 2. Reliance Industries Limited (RIL)
- ❌ 3. TATA Petrodyne Limited (TPL)
- ✅ 4. Gas Authority of India (GAIL)

**Q.37** Under which strata do trees fall?

Ans
- ❌ 1. Second vertical
- ✅ 2. Top vertical
- ❌ 3. Bottom vertical
- ❌ 4. Middle vertical

**Q.38** India's rank in Tokyo Olympic 2020 is:

Ans
- ❌ 1. 47
- ❌ 2. 46
- ❌ 3. 49
- ✅ 4. 48

**Q.39** Trade liberalisation has helped India improve its _____ in industries with medium-to-high technology content.

Ans
- ❌ 1. imports
- ✅ 2. comparative advantage
- ❌ 3. fuel efficiency
- ❌ 4. labour intensity

**Q.40** Mehrangarh fort is located in which of the following cities?

Ans  ✔ 1. Jodhpur

✘ 2. Jaipur

✘ 3. Bikaner

✘ 4. Kota

**Q.41** Which of the following five-year plan addressed the issue of removal of poverty as a chief objective for the first time?

Ans  ✘ 1. Sixth Five-year Plan

✘ 2. Third Five-year Plan

✘ 3. Fourth Five-year Plan

✔ 4. Fifth Five-year Plan

**Q.42** Which of the following is the correct formula for moment of inertia?

Ans  ✘ 1. $I = m/r^2$

✘ 2. $I = 2mr$

✔ 3. $I = mr^2$

✘ 4. $I = rm^2$

**Q.43** A Governor shall, notwithstanding the expiration of his term, continue to hold office until _____.

Ans  ✘ 1. the President's consent

✘ 2. the Legislative Secretary takes charge

✘ 3. he/she has aid and advice of the Chief Minister

✔ 4. his/her successor enters his/her office

**Q.44** Which of the following Articles of the Indian Constitution deals with the relationship between the Prime Minister and the President?

Ans  ✘ 1. Article 35

✘ 2. Article 25

✔ 3. Article 75

✘ 4. Article 45

**Q.45** Which of the following is the most widely used method for refining impure metals?

Ans  ✘ 1. Poling Refining

✘ 2. Vapour-Phase Refining

✘ 3. Liquidation Refining

✔ 4. Electrolytic Refining

**Q.46** According to the Census of India 2011, which metropolitan city has the highest population?

Ans  ✔ 1. Mumbai

✘ 2. Chennai

✘ 3. Kolkata

✘ 4. Patna

**Q.47** Who among the following founded an expatriate Communist Party of India at Tashkent in 1920?

Ans  ✘ 1. Jolly Kaul

✔ 2. MN Roy

✘ 3. PC Joshi

✘ 4. Shripad Amrut Dange

**Q.48** Guru Bipin Singh, who received the honour of Sangeet Natak Akademi Award in 1966 and the Kalidas Samman by Madhya Pradesh Government, was an exponent of which of the following Indian classical dance forms?

**Ans** ✅ 1. Manipuri

❌ 2. Odissi

❌ 3. Kathak

❌ 4. Kuchipudi

**Q.49** Identify the cultural festival on the basis of given clues:
i) This festival brings together craftsmen like potters, embroiderers, weavers, wood carvers, metal workers, stone smiths and painters from all over India on one platform in Haryana.
ii) This crafts mela is held in February every year and provides a glimpse of the state's cultural heritage and recent achievements.

**Ans** ❌ 1. Shamlaji Fair

✅ 2. Surajkund Mela

❌ 3. Kapil Muni Fair

❌ 4. Chitra Vichitra Fair

**Q.50** The 'Tripartite struggle' was between Gurjara Pratiharas in North India, Palas in Eastern India and _____ in South India.

**Ans** ❌ 1. Cheras

❌ 2. Cholas

❌ 3. Marathas

✅ 4. Rashtrakutas

**Q.1** Find the greatest number which when divides 261, 853 and 1221, leaves a remainder of 5 in each case.

**Ans** ❌ 1. 18

❌ 2. 17

✅ 3. 16

❌ 4. 19

**Q.2** The value of $(1+ \sin^4 A - \cos^4 A) \csc^2 A$ is:

**Ans** ❌ 1. −1

❌ 2. 1

❌ 3. −2

✅ 4. 2

**Q.3** Find the LCM of $\frac{3}{2}, \frac{81}{16}$ and $\frac{9}{8}$.

**Ans** ❌ 1. $\frac{111}{2}$

❌ 2. $\frac{91}{2}$

✅ 3. $\frac{81}{2}$

❌ 4. $\frac{101}{2}$

**Q.4** The cost of painting the total surface area of a 30 m high solid right circular cylinder at the rate of ₹25 per m² is ₹18,425. What is the volume (in m³) of this cylinder [use $\pi = \frac{22}{7}$]?

**Ans**
 ✗ 1. 1210
 ✓ 2. 1155
 ✗ 3. 1145
 ✗ 4. 1122

**Q.5** The table given below shows the number of products sold by 4 shopkeepers A, B, C and D on four different days.

| person / Days | A | B | C | D |
|---|---|---|---|---|
| Monday | 1000 | 800 | - | 750 |
| Tuesday | 500 | - | 900 | 650 |
| Wednesday | 800 | 1000 | 700 | - |
| Thursday | - | 1200 | 800 | 900 |

If the total products sold by A and B, including all four days, is 3000 and 3500, respectively, the products sold by B on Tuesday is how many more or less than the products sold by A on Thursday?

**Ans**
 ✓ 1. 200 less
 ✗ 2. 200 more
 ✗ 3. 300 more
 ✗ 4. 300 less

**Q.6** The perimeter of a sector of a circle is 24 cm and the radius is 3 cm. Calculate the area (in cm²) of the sector.

**Ans**
 ✗ 1. 30
 ✗ 2. 33
 ✓ 3. 27
 ✗ 4. 24

**Q.7** What is the length (in cm) of the transverse common tangent between two circles with radii 6 cm and 4 cm, given that the distance between their centres is 14 cm?

**Ans**
 ✗ 1. $2\sqrt{6}$

 ✗ 2. $3\sqrt{6}$

 ✓ 3. $4\sqrt{6}$

 ✗ 4. $5\sqrt{6}$

**Q.8** Sukhvir purchased some perishable items for sale but 30% of those items could not be sold and went bad. However, Sukhvir managed to sell the rest of the items at a price that helped him earn an overall profit of 19%. At what percentage above the cost price of each item purchased by Sukhvir did he sell each of the items that did not go bad?

**Ans**
 ✗ 1. 49%
 ✓ 2. 70%
 ✗ 3. 75%
 ✗ 4. 63%

**Q.9** Swastik saves 20% of his income while spends the remaining amount on food, rent, education and shopping. 15% of the income is spent on food, while ₹12,800 is spent on rent, ₹32,000 on education and ₹7,200 on shopping. The amount spent on shopping is 11.25% of the total expenditure. How much money (in ₹) is spent on food?

**Ans**
  ✗ 1. 9600

  ✓ 2. 12000

  ✗ 3. 15000

  ✗ 4. 10800

**Q.10** If $\cot\theta = \frac{4}{3}$, $0 < \theta < \frac{\pi}{2}$, and $5p\cos^2\theta\ \sin\theta = \cot^2\theta$, then the value of p is:

**Ans**
  ✗ 1. $\dfrac{7}{27}$

  ✗ 2. $\dfrac{5}{27}$

  ✓ 3. $\dfrac{25}{27}$

  ✗ 4. $\dfrac{125}{27}$

**Q.11** In a village election, Sharuk got 80% of the total valid votes. 10% of the votes were invalid. If the total number of votes was 4500, then find the number of valid votes the other candidate got.

**Ans**
  ✗ 1. 620

  ✗ 2. 450

  ✓ 3. 810

  ✗ 4. 530

**Q.12** If the difference between the selling prices of an article at profits of 10% and 7% is ₹6, then the cost price (in ₹) of the article is:

**Ans**
  ✗ 1. 175

  ✗ 2. 150

  ✓ 3. 200

  ✗ 4. 100

**Q.13** Simplify the given expression.

$$\frac{a^2 - b^2 - 2bc - c^2}{a^2 + b^2 + 2ab - c^2}$$

**Ans**
  ✗ 1. $\dfrac{a - b + c}{a + b - c}$

  ✗ 2. $\dfrac{a + b + c}{a - b - c}$

  ✗ 3. $\dfrac{a + b - c}{a - b - c}$

  ✓ 4. $\dfrac{a - b - c}{a + b - c}$

**Q.14** Evaluate $6.9 - [8.6 - \{6.5 - (5.4 - \overline{4.3 - 2})\}]$.

**Ans**
- ✗ 1. 1.6
- ✗ 2. 1.9
- ✗ 3. 1.8
- ✔ 4. 1.7

**Q.15** If $\cos A = \dfrac{15}{17}, 0 \le A \le 90°$, then the value of $\cot(90° - A)$ is:

**Ans**
- ✔ 1. $\dfrac{8}{15}$
- ✗ 2. $\dfrac{7}{15}$
- ✗ 3. $\dfrac{\sqrt{2}}{15}$
- ✗ 4. $\dfrac{2\sqrt{2}}{15}$

**Q.16** A can do a piece of work in 8 days, while B can do it in 7 days. If they work at it alternately beginning with A, then in how many days will the work be completed?

**Ans**
- ✗ 1. 7
- ✗ 2. 8
- ✗ 3. $8\dfrac{1}{2}$
- ✔ 4. $7\dfrac{1}{2}$

**Q.17** If $\dfrac{A}{L} + \dfrac{M}{B} = 1$ and $\dfrac{B}{M} + \dfrac{N}{C} = 1$, then the value of $\dfrac{L}{A} + \dfrac{C}{N}$ is:

**Ans**
- ✔ 1. 1
- ✗ 2. $\dfrac{B}{M}$
- ✗ 3. $\dfrac{M}{B}$
- ✗ 4. 0

**Q.18** The LCM of $\dfrac{1}{3}, \dfrac{3}{5}, \dfrac{4}{7}$ and $\dfrac{9}{16}$ is:

**Ans**
- ✗ 1. 38
- ✗ 2. 49
- ✔ 3. 36
- ✗ 4. 81

**Q.19** Study the given pie-chart and answer the question that follows.
The pie-chart shows the National Budget Expenditure in the year 2019.



**Percentage Distribution**
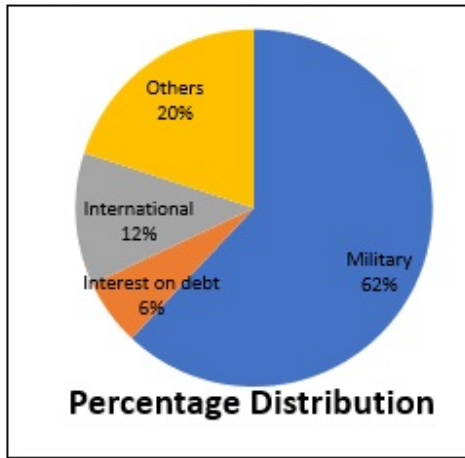
If ₹850 billion were spent in year 2019 for interest on debt and military, then what would have been the total expenditure for that year (in ₹ billion)?

Ans   ✗ 1. 1,450

✗ 2. 1,300

✗ 3. 1,700

✔ 4. 1,250

---

**Q.20** If an amount of ₹80 becomes ₹96 in 2 years in a bank account which gives simple annual interest, then an amount of ₹62,000 will become _____ in the same account after 5 years.

Ans   ✔ 1. ₹93,000

✗ 2. ₹84,600

✗ 3. ₹82,400

✗ 4. ₹88,200

---

**Q.21** What is the number of valid votes cast in favour of a candidate in an election, if the candidate received 75% of the total valid votes, and 5% of the total votes were declared invalid, given that the total number of voters was 1,46,000?

Ans   ✗ 1. 1,08,850

✔ 2. 1,04,025

✗ 3. 1,10,250

✗ 4. 1,06,650

---

**Q.22** A sum of ₹1,00,000 was taken from a bank at the rate of 7% p.a to be compounded annually for 5 years. Calculate the compound interest. (Closest to a ₹)

Ans   ✗ 1. ₹40,567

✗ 2. ₹40,000

✗ 3. ₹20,963

✔ 4. ₹40,255

---

**Q.23** The least common multiple of 210, 336 and 504 is :

Ans   ✗ 1. 4560

✗ 2. 3360

✗ 3. 2100

✔ 4. 5040

**Q.24** What will be the difference between the total surface area and the curved surface area of a hemisphere having 4 cm diameter?

**Ans**

✗ 1. $4.4\pi$ cm$^2$

✗ 2. $5\pi$ cm$^2$

✓ 3. $4\pi$ cm$^2$

✗ 4. $8\pi$ cm$^2$

**Q.25** P and Q can do a work together in 30 days. Q and R can do the same work together in 24 days and R and P together in 20 days. They started the work together, but Q and R left after 10 days. How many more days will P take to finish the remaining work?

**Ans**

✗ 1. 23

✗ 2. 19

✗ 3. 21

✓ 4. 18

**Q.26** Find the value of $\dfrac{\cos 65°}{\sin 25°} + \dfrac{5 \sin 19°}{\cos 71°} - \dfrac{3 \cos 28°}{\sin 62°}$.

**Ans**

✓ 1. 3

✗ 2. 2

✗ 3. 1

✗ 4. 0

**Q.27** In what ratio must a shopkeeper mix two types of rice worth ₹55 per kg and ₹70 per kg, so that the average cost of the mixture is ₹65 per kg?

**Ans**

✗ 1. $3 : 2$

✗ 2. $2 : 3$

✓ 3. $1 : 2$

✗ 4. $1 : 3$

**Q.28** Study the given pie-chart and answer the question that follows.
The pie-chart shows the percentage of 3600 students enrolled in different hobby classes in a school.
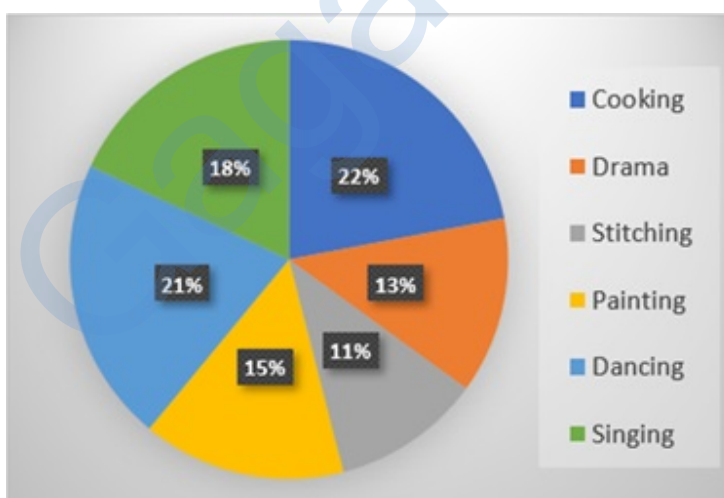


The number of students enrolled in Painting classes is approximately what percentage of those enrolled in Singing classes?

**Ans**

✓ 1. 83%

✗ 2. 98%

✗ 3. 108%

✗ 4. 78%

**Q.29** Study the given table and answer the question that follows.

The table shows the number of students doing various courses in various cities.

| City | MBA | MCA | M.Sc. | M.Com. | M.A. | Total |
|---|---|---|---|---|---|---|
| Ahmedabad | 1234 | 1384 | 1440 | 1289 | 1332 | 6679 |
| Bengaluru | 1156 | 1783 | 1874 | 1003 | 1340 | 7156 |
| Bhopal | 1187 | 1347 | 1532 | 1321 | 1486 | 6873 |
| Chennai | 1342 | 1473 | 1129 | 1765 | 1666 | 7375 |
| New Delhi | 1230 | 1098 | 1128 | 1865 | 1777 | 7098 |
| Hyderabad | 1456 | 1234 | 1556 | 1653 | 1789 | 7688 |
| Kolkata | 1239 | 1785 | 1865 | 1504 | 1762 | 8155 |

In Chennai, the number of students in MBA is nearly what percentage of students in M.A? (rounded off to 2 digits after decimal)

**Ans**
✗ 1. 92.12%

✓ 2. 80.55%

✗ 3. 76.25%

✗ 4. 99.23%

---

**Q.30** A conical shape vessel has a radius of 21 cm and has a slant height of 25 cm. If the curved part of the vessel is to be painted white, find the cost (in ₹) of painting at the rate of ₹1.5 per cm$^2$.

**Ans**
✓ 1. 2475

✗ 2. 825

✗ 3. 1650

✗ 4. 1250

---

**Q.31** The given table shows marks obtained by four students in four subjects.

| Subjects \ Student | Maths (100) | English (100) | Science (100) | Hindi (100) |
|---|---|---|---|---|
| A | 75 | 80 | 75 | 85 |
| B | 80 | 70 | 70 | 80 |
| C | 70 | 85 | 85 | 75 |
| D | 85 | 75 | 80 | 70 |

The average percentage of marks obtained by all students in Hindi is:

**Ans**
✗ 1. 77.6%

✓ 2. 77.5%

✗ 3. 77.0%

✗ 4. 77.8%

---

**Q.32** If $a \propto b$, $b \propto \frac{1}{c}$ and $c \propto d$, then the relation between a and d is:

**Ans**
✗ 1. $a \propto \sqrt{d}$

✗ 2. $a \propto d$

✓ 3. $a \propto \frac{1}{d}$

✗ 4. $a \propto d^2$

**Q.33** Reema runs $\frac{5}{4}$ times as fast as Rekha. In view of this Reema allows Rekha a lead of 50 metres to Rekha in a friendly race competition. What is the distance from the starting point where both Reema and Rekha meet?

**Ans**  ✗ 1. 200 m

✗ 2. 225 m

✗ 3. 240 m

✔ 4. 250 m

**Q.34** Study the given pie-chart and answer the question that follows.
The pie-chart shows total expenditure of ₹3,00,00,000 on different items for constructing a flat in a town.
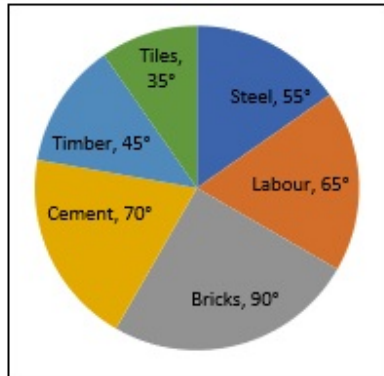


The percentage of the total expenditure on Labour and Timber is:

**Ans**

✔ 1. $30\frac{5}{9}\%$

✗ 2. $30\frac{1}{9}\%$

✗ 3. $30\frac{1}{3}\%$

✗ 4. $30\frac{7}{9}\%$

**Q.35** The curved surface area of a cone whose base radius is 7 cm and slant height is 10 cm is:

**Ans**  ✗ 1. 280 cm$^2$

✗ 2. 300 cm$^2$

✔ 3. 220 cm$^2$

✗ 4. 250 cm$^2$

**Q.36** The volume of a right circular cone having a base diameter of 14 cm is 196π cm$^3$.Find the perpendicular height of this cone

**Ans**  ✗ 1. 8 cm

✗ 2. 14 cm

✗ 3. 10 cm

✔ 4. 12 cm

**Q.37** John can do a piece of work alone in 20 days, while Ravi can do the same piece of work alone in 28 days. In how many days can the duo complete the same work if they work together?

Ans

✗ 1. $12\dfrac{2}{3}$

✗ 2. $12\dfrac{1}{3}$

✗ 3. $11\dfrac{1}{3}$

✓ 4. $11\dfrac{2}{3}$

**Q.38** Train 'A' requires 15 seconds to cross train 'B' of length 300 m moving in the opposite direction at a speed of 36 km/h. Further, train 'A' requires 30 seconds to cross a 500 m long stationary train 'C'. Find the length (in m) of train 'A'.

Ans  ✗ 1. 275

✓ 2. 200

✗ 3. 250

✗ 4. 300

**Q.39** Study the given table and answer the question that follows.
The table shows the production of five types of cars P, Q, R, S and T by a company from the year 1989 to 1994.

| Type of Car | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | Total |
|---|---|---|---|---|---|---|---|
| P | 8 | 20 | 16 | 17 | 21 | 6 | 88 |
| Q | 16 | 10 | 14 | 12 | 12 | 14 | 78 |
| R | 21 | 17 | 16 | 15 | 13 | 8 | 90 |
| S | 4 | 6 | 10 | 16 | 20 | 31 | 87 |
| T | 25 | 18 | 19 | 30 | 14 | 27 | 133 |
| Total | 74 | 71 | 75 | 90 | 80 | 86 | 476 |

During the period 1989-94, which type of car featured a continuous increase in production?

Ans  ✓ 1. S

✗ 2. P

✗ 3. Q

✗ 4. R

**Q.40** Study the given table and answer the question that follows.
The table shows the production of five types of cars P, Q, R, S and T by a company from the year 1989 to 1994.

| Type of Car | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | Total |
|---|---|---|---|---|---|---|---|
| P | 8 | 20 | 16 | 17 | 21 | 6 | 88 |
| Q | 16 | 10 | 14 | 12 | 12 | 14 | 78 |
| R | 21 | 17 | 16 | 15 | 13 | 8 | 90 |
| S | 4 | 6 | 10 | 16 | 20 | 31 | 87 |
| T | 25 | 18 | 19 | 30 | 14 | 27 | 133 |
| Total | 74 | 71 | 75 | 90 | 80 | 86 | 476 |

During the period 1989-94, which type of car featured a continuous decrease in production?

**Ans** ✔ 1. R

✘ 2. T

✘ 3. Q

✘ 4. S

**Q.41** At a courier shop, the weights of 8 parcels were found to be 1.5 kg, 1.25 kg, 1.35 kg, 750 gm, 950 gm, 0.7 kg, 0.4 kg, and 0.5 kg.
Find their average weight.

**Ans** ✔ 1. 925gm

✘ 2. 700gm

✘ 3. 875gm

✘ 4. 900gm

**Q.42** For a triangle ABC, D and E are two points on AB and AC such that $AD = \frac{1}{6} AB$, $AE = \frac{1}{6} AC$. If BC = 22 cm, then DE is _____. (Consider up to two decimals)

**Ans** ✔ 1. 3.67 cm

✘ 2. 1.67 cm

✘ 3. 1.33 cm

✘ 4. 3.33 cm

**Q.43** A hostel mess requires 217 eggs for a week. How many eggs will it require in total for the months of July, August and September?

**Ans** ✘ 1. 2821

✘ 2. 2790

✔ 3. 2852

✘ 4. 2883

**Q.44** What is the value of the given expression?

$$\frac{1}{12} + \frac{1}{16} + \frac{1}{8}$$

**Ans**

✗ 1. $\frac{3}{48}$

✗ 2. $\frac{13}{18}$

✗ 3. $\frac{10}{72}$

✓ 4. $\frac{13}{48}$

---

**Q.45** A sector of a circle has a central angle of 45° and an arc length of 22 cm. Find the radius of the circle. ( Use $\pi = \frac{22}{7}$.)

**Ans**

✓ 1. 28 cm

✗ 2. 35 cm

✗ 3. 36 cm

✗ 4. 32 cm

---

**Q.46** If the marked price is 75% more than the cost price and a discount of 40% is allowed on the marked price, then the percentage profit is:

**Ans**

✗ 1. 7%

✗ 2. 6%

✗ 3. 8%

✓ 4. 5%

---

**Q.47** A thief is noticed by a policeman from a distance of 300 m. The thief starts running and the policeman starts chasing him. The thief and policeman run at the rate of 11 km/h and 13 km/h, respectively. After running for how many kilometres will the policeman be able to catch the thief?

**Ans**

✗ 1. 1.85

✗ 2. 1.75

✗ 3. 1.65

✓ 4. 1.95

---

**Q.48** An item with a marked price of ₹1,940 was sold at a discount of 15%. At what price (in ₹) was the item sold?

**Ans**

✓ 1. 1649

✗ 2. 1639

✗ 3. 1659

✗ 4. 1654

**Q.49** Study the given table and answer the question that follows.

The table shows the number of cakes sold by four different bakeries in 4 different months.

| Month<br>Bakery | August | September | October | November |
|---|---|---|---|---|
| P | 250 | 241 | 213 | 168 |
| Q | 175 | 189 | 201 | 122 |
| R | 164 | 145 | 129 | 168 |
| S | 224 | 154 | 184 | 209 |

What is the difference between the total number of cakes sold by bakeries Q and S together in September and the total number of cakes sold by bakeries P and R together in November?

**Ans**  ✗ 1. 9

✗ 2. 10

✔ 3. 7

✗ 4. 8

---

**Q.50** Find the greatest possible length (in metres) that can be used to exactly measure the lengths 6 m, 5 m 25 cm and 12 m 50 cm.

**Ans**  ✗ 1. 0.35 m

✗ 2. 0.90 m

✗ 3. 0.75 m

✔ 4. 0.25 m

---

**Q.1** Select the sentence that has a spelling error.

A- The art of living is learnt easily by those who are positive and optimistic.
B- We can learn a lot about the art of living by having a peep into the lives of great men.
C- The daily routines of these great men dissiminate that they are different.
D- Their unique lifestyles help us learn certain habits and practices that they followed.

**Ans**  ✗ 1. The art of living is learnt easily by those who are positive and optimistic.

✗ 2. We can learn a lot about the art of living by having a peep into the lives of great men.

✗ 3. Their unique lifestyles help us learn certain habits and practices that they followed.

✔ 4. The daily routines of these great men dissiminate that they are different.

---

**Q.2** Select the most appropriate ANTONYM of the word 'discordant' in the given sentence and choose the correct option.

The sweet melodious symphony of the piano filled the room, transporting the listeners to a world of beauty and emotion.

**Ans**  ✗ 1. Transporting

✔ 2. Melodious

✗ 3. Emotion

✗ 4. Filled

**Q.3** Select the most appropriate ANTONYM of the given word.

**Rejoinder**

**Ans** ✗ 1. Ordinary

✔ 2. Request

✗ 3. Reply

✗ 4. Expedite

**Q.4** Select the most appropriate idiom to fill in the blank.

**I think we should _____ before buying this car.**

**Ans** ✗ 1. eat like a horse

✗ 2. get off our high horse

✔ 3. hold our horses

✗ 4. stop to change horses

**Q.5** Select the option that can be used as a one-word substitute for the given group of words.

**A person who believes that God does not exist**

**Ans** ✗ 1. Hedonistic

✔ 2. Atheist

✗ 3. Fanatic

✗ 4. Epicurean

**Q.6** Select the option that can be used as a one-word substitute for the given group of words.

**One who settles in another country**

**Ans** ✗ 1. Traveller

✗ 2. Resident

✗ 3. Refugee

✔ 4. Immigrant

**Q.7** Select the INCORRECTLY spelt word from the given sentence.
**Gandhiji considered untouchability to be one of India's major social ills.**

**Ans** ✗ 1. untouchability

✗ 2. major

✔ 3. considared

✗ 4. social

**Q.8** The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.
**I wanted to buy a candle holder, / but the store didn't have one. / So, I got a cake.**

**Ans** ✔ 1. No error

✗ 2. I wanted to buy a candle holder

✗ 3. but the store didn't have one

✗ 4. So, I got a cake

**Q.9** Select the INCORRECTLY spelt word.

**Ans** ✗ 1. Yearn

✗ 2. Merriment

✗ 3. Zenith

✔ 4. Miniture

**Q.10** You are preparing a speech for an upcoming function. Select a synonym for the highlighted word to make it better.

Effective public transportation networks may greatly alleviate traffic congestion and enhance inhabitants' quality of life in general.

**Ans** ✔ 1. Gridlock

✘ 2. Amplification

✘ 3. Diversion

✘ 4. Laxity

---

**Q.11** Select the most appropriate synonym of the word 'viable' in the given sentence and choose the correct option.

The engineer's design was optimised for efficiency and scalability, with a focus on sustainability.

**Ans** ✘ 1. Scalability

✔ 2. Sustainability

✘ 3. Efficiency

✘ 4. Optimised

---

**Q.12** Select the most appropriate idiom to fill in the blank.
Choosing not to pursue a degree in computer engineering was _____, as the market for them is extremely limited nowadays.

**Ans** ✘ 1. airy fairy

✔ 2. a blessing in disguise

✘ 3. an elevator pitch

✘ 4. a cut above

---

**Q.13** Parts of the following sentence have been given as options. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

You arrived two days ago. By the time you leave, you will have spent nine days here.

**Ans** ✘ 1. You arrived two days ago

✘ 2. you will have spent nine days here

✘ 3. By the time you leave

✔ 4. No error

---

**Q.14** Select the option that can be used as a one-word substitute for the given group of words.

Study of science of insects

**Ans** ✘ 1. Microbiology

✘ 2. Anthropology

✘ 3. Ecology

✔ 4. Entomology

---

**Q.15** The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

A Prime Minister of India / will address / the nation today / on the occasion of Independence Day.

**Ans** ✘ 1. the nation today

✘ 2. on the occasion of Independence Day

✘ 3. will address

✔ 4. A Prime Minister of India

**Q.16** Select the most appropriate option that can substitute the underlined segment in the given sentence.

Payal's father was seen desperately searching for the <u>medicine that can counteract the effect</u> of a venomous snakebite in Parul's left hand.

**Ans**
✗ 1. remedy

✗ 2. antiseptic

✔ 3. antidote

✗ 4. anti-serum

---

**Q.17** Select the most appropriate meaning of the given idiom.

**Crack someone up**

**Ans**
✗ 1. To criticise someone

✗ 2. To make someone angry

✔ 3. To make someone laugh

✗ 4. To force someone to commit a mistake

---

**Q.18** Select the most appropriate ANTONYM of the given word.

**Leniency**

**Ans**
✗ 1. Penalty

✗ 2. Discard

✔ 3. Sternness

✗ 4. Favour

---

**Q.19** Select the most appropriate ANTONYM of the given word.
**Placid**

**Ans**
✔ 1. Turbulent

✗ 2. Destined

✗ 3. Pensive

✗ 4. Pristine

---

**Q.20** Select the correct option to substitute the underlined segment in the given sentence. If no substitution is required, select 'No substitution'.

**He is <u>faster than smarter</u>.**

**Ans**
✔ 1. more fast than smart

✗ 2. faster than being smart

✗ 3. fast than smart

✗ 4. No substitution

---

**Q.21** Select the most appropriate ANTONYM of the given word.
**Asset**

**Ans**
✔ 1. Liability

✗ 2. Mole

✗ 3. Wealth

✗ 4. Refuge

**Q.22** Select the option that can be used as a one-word substitute for the given group of words.

The capacity for being useful for some purpose.

Ans ✗ 1. Gain

✗ 2. Aid

✗ 3. Desirability

✓ 4. Utility

**Q.23** Select the option that can be used as a one-word substitute for the given group of words.

The study of the human mind

Ans ✓ 1. Psychology

✗ 2. Microbiology

✗ 3. Epidemiology

✗ 4. Anthropology

**Q.24** Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.
The Taj Mahal is one of the <u>much</u> popular seven wonders of the world.

Ans ✗ 1.  much more

✗ 2. more

✓ 3. most

✗ 4. No substitution required

**Q.25** Select the most appropriate meaning of the given idiom.

What a small world!

Ans ✓ 1. What a coincidence!

✗ 2. What a beautiful place!

✗ 3. The world is a village.

✗ 4. The world is great.

**Q.26** Select the most appropriate option to substitute the underlined segment in the given sentence.

Any sort of <u>unfair conduct</u> is not tolerated in international sports tournaments as it can completely ruin an athlete's career.

Ans ✗ 1. hand in the mud

✗ 2. straw in the eye

✗ 3. red handed

✓ 4. foul play

**Q.27** Select the most appropriate ANTONYM of the given word.
Denounce

Ans ✗ 1. Criticise

✗ 2. Dainty

✓ 3. Praise

✗ 4. Relieve

**Q.28** Select the option that can be used as a one-word substitute for the given group of words.

**Happening repeatedly**

Ans ✅ 1. Recurrent

❌ 2. Rapport

❌ 3. Regression

❌ 4. Recuperate

**Q.29** Select the most appropriate synonym of the given word.
**Captivate**

Ans ❌ 1. Study

❌ 2. Envelope

✅ 3. Allure

❌ 4. Arrest

**Q.30** Select the INCORRECTLY spelt word.

Ans ✅ 1. Pitza

❌ 2. Noodle

❌ 3. Pasta

❌ 4. Bread

**Q.31** Select the option that can be used as a one-word substitute for the given group of words.
**A keeper or custodian of a museum or other collection**

Ans ❌ 1. Cartographer

❌ 2. Chauffeur

✅ 3. Curator

❌ 4. Calligrapher

**Q.32** Select the correct idiom to substitute the underlined word segment in the following sentence.
**She trusted her husband but he stabbed her in the neck when he usurped her inheritance.**

Ans ❌ 1. snapped her in the neck

✅ 2. stabbed her in the back

❌ 3. stabbed her with a fork

❌ 4. stabbed her prospects

**Q.33** Select the most appropriate idiom to fill in the blank.
**All my efforts went in vain. The project on which I was working for the last two months has failed and we are _____ .**

Ans ❌ 1. around the bend

✅ 2. back to square one

❌ 3. all in the seventh heaven

❌ 4. on the fly

**Q.34** Parts of the following sentence have been given as options. Select the option that contains an error.
**Raman ate the cake and exclaimed that it tasted sweetly.**

Ans ❌ 1. the cake

✅ 2. it tasted sweetly

❌ 3. and exclaimed that

❌ 4. Raman ate

**Q.35** Select the most appropriate ANTONYM of the given word.

**Apathy**

Ans ✗ 1. Sincerity

✗ 2. Interruption

✔ 3. Interest

✗ 4. Ignorance

**Q.36** Select the correct idiom to replace the underlined segment in the given sentence.

We should ask Emily to join our team. She is <u>as keen as butter</u>.

Ans ✗ 1. as keen as a bee

✗ 2. as keen as salt

✔ 3. as keen as mustard

✗ 4. as keen as sugar

**Q.37** Choose the correct spelling of the underlined word in the given sentence.
He has won the medal for the <u>twelth</u> time.

Ans ✗ 1. Twwelfth

✗ 2. Twellth

✔ 3. Twelfth

✗ 4. Tweltth

**Q.38** Select the correct idiom that can substitute the italicised group of words in the given sentence.

He really stinks and *smells foul* after a hard session at the gym.

Ans ✗ 1. lame excuse

✔ 2. pen and ink

✗ 3. an iron will

✗ 4. an old flame

**Q.39** Identify the sentence that correctly uses the indefinite article.

Ans ✗ 1. There are three cars parked outside: a Mercedes, an Jaguar and an Fiat.

✗ 2. There are three cars parked outside: an Mercedes, a Jaguar and a Fiat.

✔ 3. There are three cars parked outside: a Mercedes, a Jaguar and a Fiat.

✗ 4. There are three cars parked outside: a Mercedes, an Jaguar and a Fiat.

**Q.40** Choose the most suitable idiom for the given situation.
Ravi has a strong desire to be in college hockey team this year and he is working hard to gain such skills to fulfill his goal of life. He has clearly made up his mind to achieve his target.

Ans ✔ 1. Set sights on

✗ 2. To move the goal posts

✗ 3. To rise to the occasion

✗ 4. To make the cut

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

South Korea is the most cosmetically (1)_____ country on Earth. Beauty editors estimate that it is because of the government's heavy investment (2)_____ industry. It is ahead of its competitors, and its citizens (3)_____ twice as much on skincare products as consumers in the United States, the UK, and France. Korean shoppers are (4)_____ the world's most discerning. Eight out of 10 Korean women in their 20s and 30s use an app that (5)_____ like a cosmetics-specific, to debate the merits of various common ingredients.

**SubQuestion No : 41**

**Q.41** **Select the most appropriate option to fill in blank number 1.**

**Ans** ✗ 1. early

✔ 2. advanced

✗ 3. ancient

✗ 4. primitive

---

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

South Korea is the most cosmetically (1)_____ country on Earth. Beauty editors estimate that it is because of the government's heavy investment (2)_____ industry. It is ahead of its competitors, and its citizens (3)_____ twice as much on skincare products as consumers in the United States, the UK, and France. Korean shoppers are (4)_____ the world's most discerning. Eight out of 10 Korean women in their 20s and 30s use an app that (5)_____ like a cosmetics-specific, to debate the merits of various common ingredients.

**SubQuestion No : 42**

**Q.42** **Select the most appropriate option to fill in blank number 2.**

**Ans** ✗ 1. of the

✔ 2. in the

✗ 3. by the

✗ 4. from the

---

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

South Korea is the most cosmetically (1)_____ country on Earth. Beauty editors estimate that it is because of the government's heavy investment (2)_____ industry. It is ahead of its competitors, and its citizens (3)_____ twice as much on skincare products as consumers in the United States, the UK, and France. Korean shoppers are (4)_____ the world's most discerning. Eight out of 10 Korean women in their 20s and 30s use an app that (5)_____ like a cosmetics-specific, to debate the merits of various common ingredients.

**SubQuestion No : 43**

**Q.43** **Select the most appropriate option to fill in blank number 3.**

**Ans** ✗ 1. cherish

✗ 2. propagate

✗ 3. comply

✔ 4. spend

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

South Korea is the most cosmetically (1)_____ country on Earth. Beauty editors estimate that it is because of the government's heavy investment (2)_____ industry. It is ahead of its competitors, and its citizens (3)_____ twice as much on skincare products as consumers in the United States, the UK, and France. Korean shoppers are (4)_____ the world's most discerning. Eight out of 10 Korean women in their 20s and 30s use an app that (5)_____ like a cosmetics-specific, to debate the merits of various common ingredients.

**SubQuestion No : 44**

**Q.44  Select the most appropriate option to fill in blank number 4.**

**Ans**   ✗ 1. though

  ✗ 2. although

  ✗ 3. maybe

  ✓ 4. perhaps

**SubQuestion No : 45**

**Q.45  Select the most appropriate option to fill in blank number 5.**

**Ans**   ✗ 1. stops

  ✓ 2. functions

  ✗ 3. dissolves

  ✗ 4. malfunctions

**Comprehension:**

Read the given passage carefully and answer the questions that follow.

Throughout history, the intricacies of the human mind have been the subject of fascination and inquiry. From ancient philosophers to modern-day neuroscientists, the workings of the brain have been studied and analysed in an attempt to unravel its mysteries. However, despite centuries of research, much remains unknown about the complexities of human cognition and consciousness. One of the most fascinating aspects of the human mind is its ability to create and imagine. The human mind has the capacity to conceptualise and bring into being ideas that were previously unknown or unimaginable, from artistic expression to scientific discovery. The process of creativity has captured the attention of scholars and laypeople alike and is both enigmatic and awe-inspiring.

There have been many theories proposed to explain the process of creativity. Some suggest that it is a purely subconscious process, while others argue that creativity is a result of conscious effort and intentional problem-solving. Still others suggest that creativity arises from a combination of conscious and subconscious processes.

Despite the ongoing debate over the nature of creativity, one thing is clear: it is a multifaceted and complex phenomenon. Creativity can manifest in a wide range of human activities, from the creation of art and literature to the development of scientific theories and inventions. It can occur in both individual and collective contexts and can be driven by a variety of factors such as curiosity, passion, or the desire for recognition.

Creativity also has the potential to bring about positive change in the world. Throughout history, creative individuals and groups have used their talents to address social, political, and environmental challenges, often inspiring others to take action and make a difference. From the abolitionist movement to the civil rights movement to the environmental movement, creativity has played a crucial role in promoting social justice and positive change.

Despite the many benefits of creativity, it is not without its challenges. The process of creative expression can be fraught with obstacles, from self-doubt and insecurity to external pressures and constraints. Moreover, not all creative ideas are successful or well-received, and many artists and innovators face rejection and criticism as they seek to bring their ideas to fruition.

Despite these challenges, however, the human drive to create and imagine persists. Individuals and groups continue to harness the power of creativity to make a difference in the world. From the humblest amateur artist to the most celebrated innovator, the human capacity for creativity remains one of our greatest strengths and sources of inspiration.

**SubQuestion No : 46**

**Q.46 Select the most appropriate ANTONYM for the word 'fraught'.**

Ans  ✗ 1. Beset

 ✓ 2. Devoid

 ✗ 3. Calm

 ✗ 4. Tranquil

---

**SubQuestion No : 47**

**Q.47 What is the main focus of the passage?**

Ans  ✗ 1. The complexities and challenges of cognitive processes.

 ✓ 2. The nature of creativity, its benefits and challenges.

 ✗ 3. The nature of fancy and imagination.

 ✗ 4. The mysteries of the human mind.

**Comprehension:**

Read the given passage carefully and answer the questions that follow.

Throughout history, the intricacies of the human mind have been the subject of fascination and inquiry. From ancient philosophers to modern-day neuroscientists, the workings of the brain have been studied and analysed in an attempt to unravel its mysteries. However, despite centuries of research, much remains unknown about the complexities of human cognition and consciousness.

One of the most fascinating aspects of the human mind is its ability to create and imagine. The human mind has the capacity to conceptualise and bring into being ideas that were previously unknown or unimaginable, from artistic expression to scientific discovery. The process of creativity has captured the attention of scholars and laypeople alike and is both enigmatic and awe-inspiring.

There have been many theories proposed to explain the process of creativity. Some suggest that it is a purely subconscious process, while others argue that creativity is a result of conscious effort and intentional problem-solving. Still others suggest that creativity arises from a combination of conscious and subconscious processes.

Despite the ongoing debate over the nature of creativity, one thing is clear: it is a multifaceted and complex phenomenon. Creativity can manifest in a wide range of human activities, from the creation of art and literature to the development of scientific theories and inventions. It can occur in both individual and collective contexts and can be driven by a variety of factors such as curiosity, passion, or the desire for recognition.

Creativity also has the potential to bring about positive change in the world. Throughout history, creative individuals and groups have used their talents to address social, political, and environmental challenges, often inspiring others to take action and make a difference. From the abolitionist movement to the civil rights movement to the environmental movement, creativity has played a crucial role in promoting social justice and positive change.

Despite the many benefits of creativity, it is not without its challenges. The process of creative expression can be fraught with obstacles, from self-doubt and insecurity to external pressures and constraints. Moreover, not all creative ideas are successful or well-received, and many artists and innovators face rejection and criticism as they seek to bring their ideas to fruition.

Despite these challenges, however, the human drive to create and imagine persists. Individuals and groups continue to harness the power of creativity to make a difference in the world. From the humblest amateur artist to the most celebrated innovator, the human capacity for creativity remains one of our greatest strengths and sources of inspiration.

**SubQuestion No : 48**

**Q.48    Which of the following factors can drive creativity?**

**Ans**    ✗ 1. Fancy and imagination

   ✗ 2. Self-doubt and insecurity

   ✔ 3. Curiosity and passion

   ✗ 4. External pressures and constraints

---

**Comprehension:**

Read the given passage carefully and answer the questions that follow.

Throughout history, the intricacies of the human mind have been the subject of fascination and inquiry. From ancient philosophers to modern-day neuroscientists, the workings of the brain have been studied and analysed in an attempt to unravel its mysteries. However, despite centuries of research, much remains unknown about the complexities of human cognition and consciousness.

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**SubQuestion No : 49**

**Q.49    According to the passage, what is one of the challenges of creative expression?**

**Ans**    ✗ 1. The limited capacity of the human mind.

   ✔ 2. The lack of appreciation for creative ideas.

   ✗ 3. The absence of external pressures and constraints.

   ✗ 4. The overemphasis on conscious problem-solving.

**Comprehension:**

Read the given passage carefully and answer the questions that follow.

Throughout history, the intricacies of the human mind have been the subject of fascination and inquiry. From ancient philosophers to modern-day neuroscientists, the workings of the brain have been studied and analysed in an attempt to unravel its mysteries. However, despite centuries of research, much remains unknown about the complexities of human cognition and consciousness.

One of the most fascinating aspects of the human mind is its ability to create and imagine. The human mind has the capacity to conceptualise and bring into being ideas that were previously unknown or unimaginable, from artistic expression to scientific discovery. The process of creativity has captured the attention of scholars and laypeople alike and is both enigmatic and awe-inspiring.

There have been many theories proposed to explain the process of creativity. Some suggest that it is a purely subconscious process, while others argue that creativity is a result of conscious effort and intentional problem-solving. Still others suggest that creativity arises from a combination of conscious and subconscious processes.

Despite the ongoing debate over the nature of creativity, one thing is clear: it is a multifaceted and complex phenomenon. Creativity can manifest in a wide range of human activities, from the creation of art and literature to the development of scientific theories and inventions. It can occur in both individual and collective contexts and can be driven by a variety of factors such as curiosity, passion, or the desire for recognition.

Creativity also has the potential to bring about positive change in the world. Throughout history, creative individuals and groups have used their talents to address social, political, and environmental challenges, often inspiring others to take action and make a difference. From the abolitionist movement to the civil rights movement to the environmental movement, creativity has played a crucial role in promoting social justice and positive change.

Despite the many benefits of creativity, it is not without its challenges. The process of creative expression can be fraught with obstacles, from self-doubt and insecurity to external pressures and constraints. Moreover, not all creative ideas are successful or well-received, and many artists and innovators face rejection and criticism as they seek to bring their ideas to fruition.

Despite these challenges, however, the human drive to create and imagine persists. Individuals and groups continue to harness the power of creativity to make a difference in the world. From the humblest amateur artist to the most celebrated innovator, the human capacity for creativity remains one of our greatest strengths and sources of inspiration.

**SubQuestion No : 50**

**Q.50   Select an appropriate title for the passage.**

**Ans**    ✔ 1. The Power of Creativity

✘ 2. The Complexities of Human Cognition

✘ 3. The History of the Human Mind

✘ 4. The Role of the Human Mind in Promoting Positive Change

**Q.1** Select the option that is related to the fourth term in the same way as the first term is related to the second term and the fifth term is related to the sixth term.
**5 : 21 :: ? : 252 :: 27 : 725**

**Ans** ✗ 1. 12

✓ 2. 16

✗ 3. 26

✗ 4. 10

**Q.2** 'C @ D' means 'C is the mother of D'.
'C $ D' means 'C is the brother of D'.
'C # D' means 'C is the sister of D'.
'C * D' means 'C is the father of D'.
If V $ Y @ G * F, then how is Y related to F?

**Ans** ✗ 1. Brother

✗ 2. Sister

✗ 3. Father's sister

✓ 4. Father's mother

**Q.3** Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)

**(125, 87, 49), (236, 198, 160)**

**Ans** ✗ 1. (194, 162, 124)

✓ 2. (277, 239, 201)

✗ 3. (166, 128, 101)

✗ 4. (222, 186, 140)

**Q.4** If '×' means '–', '+' means ' ÷ ', '–' means '+', and '÷' means '×', what will be the value of the following expression?
**40 + [{( 24 - 12) × ( 2 ÷ 2 )} + ( 18 × 10 )]**

**Ans** ✗ 1. 20

✗ 2. 1

✗ 3. 5

✓ 4. 10

**Q.5** Select the set in which the numbers are related in the same way as are the numbers of the following set.

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)

**(5, 4, 405)**

**(7, 3, 500)**

**Ans** ✓ 1. (4, 1, 125)

✗ 2. (5, 8, 789)

✗ 3. (4, 5, 850)

✗ 4. (3, 2, 145)

**Q.6** Select the correct mirror image of the given figure when the mirror is placed at MN as shown.

M
|
J m 4 5 a e |
|
N

**Ans**

✓ 1. ɘɒ2µɯ l

✗ 2. ɘɒ2µɯ l

✗ 3. ɘ2µɯ ſ
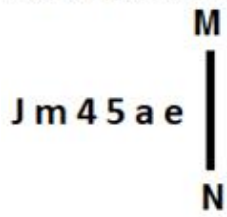
✗ 4. ɘɒ45 m l

---

**Q.7** In a certain code language, 'BED' is coded as 9 and 'TABLE' is coded as 25. How will 'RECLINER' be coded in the same language?

**Ans**

✗ 1. 72

✗ 2. 36

✗ 3. 58

✓ 4. 64

**Q.8** Which of the given figures when placed in the 5$^{th}$ position would continue the series that is established by the first four figures?
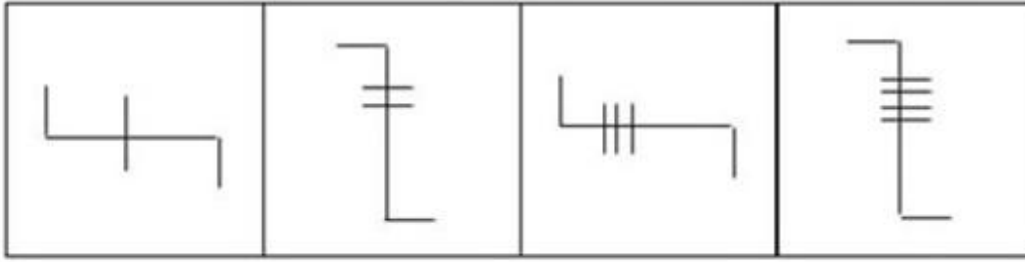


Ans

✗ 1.
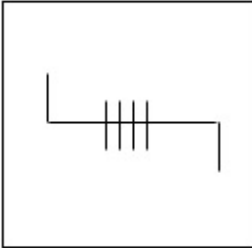


✗ 2.
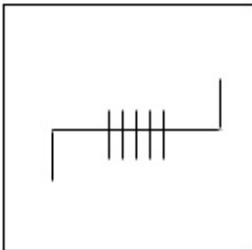


✗ 3.
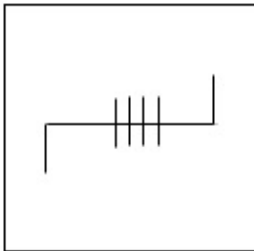


✔ 4.
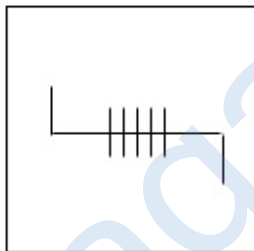


**Q.9** If A denotes '+', B denotes '×', C denotes '−', and D denotes '÷', then what will be the value of the following equation?
80 C 16 B 4 A 96 D 4 = ?

Ans ✗ 1. 54

✔ 2. 40

✗ 3. 120

✗ 4. 37

**Q.10** Select the option that is embedded in the given figure as its part (rotation is NOT allowed)



**Ans**

✅ 1. 

❌ 2. 

❌ 3. 

❌ 4. 

**Q.11** Which figure from the given options would replace the question mark (?) if the following figure series were to be continued?

| X   O | △   T | X   O | △   T |       |
|-------|-------|-------|-------|-------|
|   S   |   C   |   □   |   ∩   |   ?   |
| T   △ | O   X | T   △ | O   X |       |

**Ans**

1. 
```
△   O

    P

    T   X
```
✗

2.
```
X   T

    P

    O   △
```
✗

3.
```
X   O

    ∩

    T   △
```
✗

4.
```
X   O

    P

    T   △
```
✔

**Q.12** Two statements are given followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

**Statements:**
All goods are services.
No service is a delivery.

**Conclusions:**
I. No good is a delivery.
II. Some goods are deliveries.

**Ans** 

✗ 1. Both conclusions I and II follow

✗ 2. Neither conclusion I nor II follows

✔ 3. Only conclusion I follows

✗ 4. Only conclusion II follows

**Q.13** In a certain code language, 'TOWER' is written as 'INGYL' and 'SIGHT' is written as 'JTWVJ'. How will 'BRING' be written in that language?

**Ans**
✗ 1. ACTBE

✓ 2. AKUPW

✗ 3. LWYDB

✗ 4. KRPJS

---

**Q.14** Which of the following terms will replace the question mark (?) in the given series?

PMRO  NKTQ  LIVS  ?      HEZW

**Ans**
✓ 1. JGXU

✗ 2. JGVU

✗ 3. JGUX

✗ 4. GJXU

---

**Q.15** Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the odd letter-cluster.

**Ans**
✓ 1. EHBG

✗ 2. SUPT

✗ 3. PRMQ

✗ 4. JLGK

---

**Q.16** If '+' means '÷', '−' means '×', '×' means '−', and '÷' means '+', then what will be the value of the following expression?
108 × 343 + 7 - 2 ÷ 13 = ?

**Ans**
✗ 1. 19

✓ 2. 23

✗ 3. 28

✗ 4. 44

---

**Q.17** Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation.
42 * 7 * 3 * 2 * 13 * 7

**Ans**
✓ 1. ÷, ×, +, =, +

✗ 2. +, =, ÷, ×, +

✗ 3. ÷, ×, −, =, ×

✗ 4. ÷, ×, =, +, +

---

**Q.18** In this question, three statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follows/follow from the statements.
**Statements:**
I. No dean is a teacher.
II. All teachers are professors.
III. No professor is a lecturer.
**Conclusions:**
I. Some deans are lecturers.
II. Some teachers are lecturers.

**Ans**
✗ 1. Only conclusion I follows

✓ 2. Neither conclusion I nor II follows

✗ 3. Both conclusions I and II follow

✗ 4. Only conclusion II follows

**Q.19** Select the option figure which is embedded in the given figure as its part (rotation is NOT allowed).
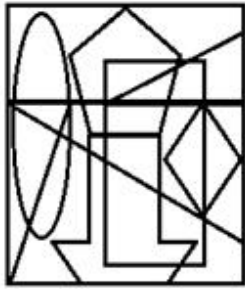


Ans

✗ 1. 

✗ 2. 

✔ 3. 

✗ 4. 

---

**Q.20** Select the set in which the numbers are related in the same way as the numbers of the given sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
(6, 8, 106)
(7, 11, 177)

Ans

✗ 1. (7, 9, 136)

✔ 2. (9, 8, 154)

✗ 3. (5, 9, 101)

✗ 4. (8, 7, 119)

---

**Q.21** In a certain code language, 'CARD' is coded as '3597' and 'DOGS' is coded as '8346'. What is the code for 'D' in the given code language?

Ans

✗ 1. 9

✔ 2. 3

✗ 3. 5

✗ 4. 4

---

**Q.22** If '+' means '−', '−' means '÷', '÷' means '×' and '×' means '+', then what will come in place of the (?) in the following equation?
15 ÷ 405 − 3 + 25 × 5 = ?

Ans

✗ 1. 1889

✔ 2. 2005

✗ 3. 1890

✗ 4. 2000

**Q.23** Select the correct mirror image of the given figure when the mirror is placed at line MN as shown.



**Ans**

✗ 1. 

✗ 2. 

✗ 3. 

✔ 4. 

---
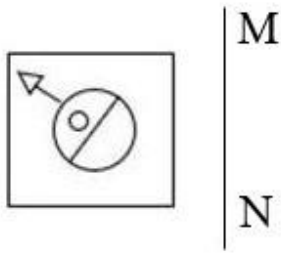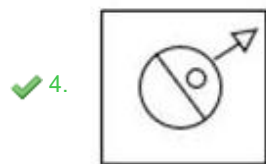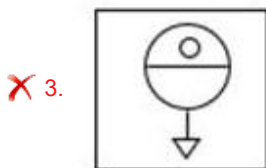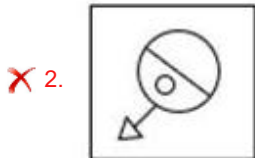
**Q.24** In a certain code language, 'Here we go' is coded as 'asa te du' and 'We can go' is coded as 'du mu asa'. What is the code for the word 'Here'?

**Ans**
✗ 1. asa

✗ 2. mu

✔ 3. te

✗ 4. du

---

**Q.25** Which of the following numbers will replace the question mark (?) in the given series?
38, 64, 98, 140, ?

**Ans**
✗ 1. 192

✔ 2. 190

✗ 3. 188

✗ 4. 186

---

**Q.26** उस विकल्प का चयन करें, जो तीसरे शब्द से उसी प्रकार संबंधित है, जिस प्रकार दूसरा शब्द पहले शब्द से संबंधित है। (शब्दों को अर्थपूर्ण शब्दों के रूप में माना जाना चाहिए, और इन्हें शब्द में अक्षरों की संख्या/व्यंजनों की संख्या/स्वरों की संख्या के आधार पर एक-दूसरे से संबद्ध नहीं किया जाना चाहिए।)
बिल्ली (Cat) : पंजा (Paw) :: कौवा (Crow) : ?

**Ans**
✗ 1. चोंच (Beak)

✔ 2. पंजा (Claw)

✗ 3. हॉफ (Hoff)

✗ 4. पंख (Wings)

**Q.27** Two statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

**Statements:**
All cupboards are shelves.
All shelves are drawers.

**Conclusions:**
I. All cupboards are drawers.
II. All drawers are shelves.

**Ans**   ✗ 1. Neither conclusion I nor II follows

✗ 2. Both conclusions I and II follow

✗ 3. Only conclusion II follows

✓ 4. Only conclusion I follows

---

**Q.28** A boy walks 15 m north, turns right and walks 20 m. Again, he turns right and walks 15 m. Finally, he turns to his left and moves 20 m. What is the distance now from his original position?

**Ans**   ✗ 1. 50 m

✗ 2. 45 m

✓ 3. 40 m

✗ 4. 46 m

---

**Q.29** Which of the following numbers will replace the question mark (?) in the given series?
1024, 256, 64, ?, 4

**Ans**   ✗ 1. 32

✓ 2. 16

✗ 3. 34

✗ 4. 36

---

**Q.30** Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.

CREATION : ETGCVKQP :: UNIVERSE : WPKXGTUG :: PLANET :?

**Ans**   ✓ 1. RNCPGV

✗ 2. RPGVNC

✗ 3. RCPNGV

✗ 4. RPCGVN

**Q.31** Select the option figure in which the given figure is embedded (rotation is NOT allowed).



**Ans**

✗ 1.
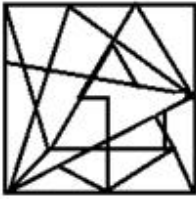


✗ 2.
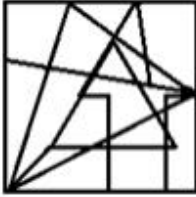


✓ 3.
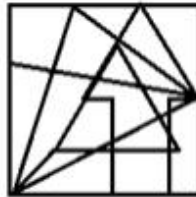


✗ 4.
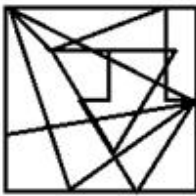


**Q.32** Which of the following terms will replace the question mark (?) in the given series?
WWVU , USTQ , ? , QKPI , OGNE

**Ans** ✗ 1. SROM

✗ 2. SQRM

✓ 3. SORM

✗ 4. SORW

**Q.33** Select the correct mirror image of the given figure when the mirror is placed at line MN as shown.
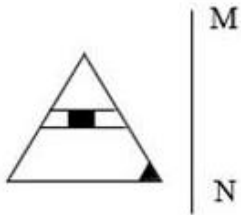


Ans

✔ 1.
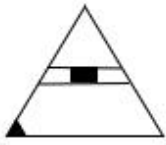


✘ 2.
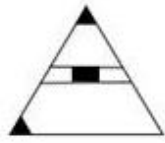


✘ 3.
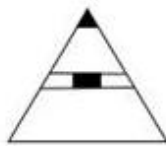


✘ 4.
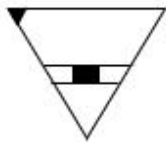


**Q.34** In a certain code language, 'How are you' is coded as 'si de tu' and 'You are fine' is coded as 'de mu si'. What is the code for the word 'How'?

Ans  ✘ 1. si

✘ 2. mu

✔ 3. tu

✘ 4. de

**Q.35** Select the option in which the given figure is embedded (rotation is NOT allowed).



**Ans**

✔ 1. 
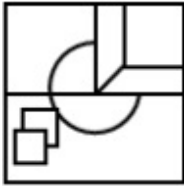
✘ 2. 

✘ 3. 
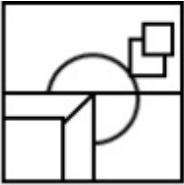
✘ 4. 

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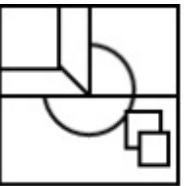
**Q.36** Manoj starts from point A and drives X km towards the south and then turns left and drives Y km. He then takes a right turn and drives for 4 km to reach point D. If Manoj drove a total of 17 km between Points A and D, and both X and Y are perfect squares where X > Y, then what is the value of X ?

**Ans**

✘ 1. 5

✔ 2. 9

✘ 3. 4

✘ 4. 11

**Q.37** Select the option in which the given figure is embedded (rotation is NOT allowed).
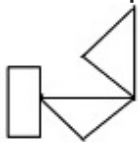


Ans

✗ 1.
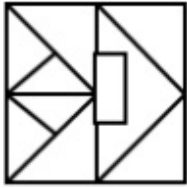
✔ 2.
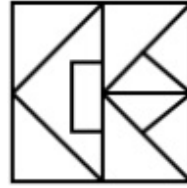
✗ 3.
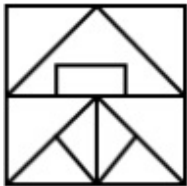
✗ 4.

---
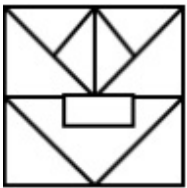
**Q.38** A @ B means 'A is the husband of B'
A & B means 'A is the mother of B'
A # B means 'A is the daughter of B'
If D & G @ F & E @ H, then how is G related to H?

Ans   ✗ 1. Father

✗ 2. Husband's mother

✗ 3. Mother

✔ 4. Husband's father

---

**Q.39** Select the option that represents the correct order of the given words as they would appear in an English dictionary?
1.Jalopy
2.Jabber
3. Jackpot
4.Jackdaw
5.Jackal

Ans   ✔ 1. 2, 5, 4, 3, 1

✗ 2. 2, 4, 3, 1, 5

✗ 3. 3, 2, 4, 5, 1

✗ 4. 4, 5, 2, 3, 1

**Q.40** Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.

1. Glory
2. Glossary
3. Globe
4. Gloss
5. Glow
6. Gloomy

**Ans** ✘ 1. 3, 1, 6, 4, 2, 5

✔ 2. 3, 6, 1, 4, 2, 5

✘ 3. 3, 6, 1, 2, 4, 5

✘ 4. 6, 3, 1, 4, 2, 5

---

**Q.41** Select the option that represents the letters that, when sequentially placed from left to right in the blanks below, will complete the letter series.
L _ _ A _ _ S _ _ K _ _ L _ _ A

**Ans** ✔ 1. K S L K A L S A K S

✘ 2. A S L K A L S A K A

✘ 3. K S L K A L S A K A

✘ 4. K S K K A L S A K A

---

**Q.42** Which of the following numbers will replace the question mark (?) in the given series?

93, ?, 102, 111, 123, 138

**Ans** ✘ 1. 98

✘ 2. 95

✘ 3. 97

✔ 4. 96

---

**Q.43** Which two mathematical signs should be interchanged to make the given equation correct?

(63 × 21) + 8 + 99 × 11 ÷ 16 + (12 × 4) = 158

**Ans** ✘ 1. × and −

✔ 2. ÷ and ×

✘ 3. + and −

✘ 4. × and +

---

**Q.44** Given below are two statements and two conclusions. Take the statements to be true even if they are at variance with commonly known facts, and decide whether the conclusion(s) follow(s) the given statements.
Statements:
All dogs are cats.
Some cats are not dolls.
Conclusions:
I. All dolls are cats.
II. Some cats are dogs.

**Ans** ✘ 1. Both the conclusions follow

✔ 2. Only conclusion II follows

✘ 3. Only conclusion I follows

✘ 4. Neither conclusion I nor II follows

**Q.45** Select the figure that will come next in the following figure series.
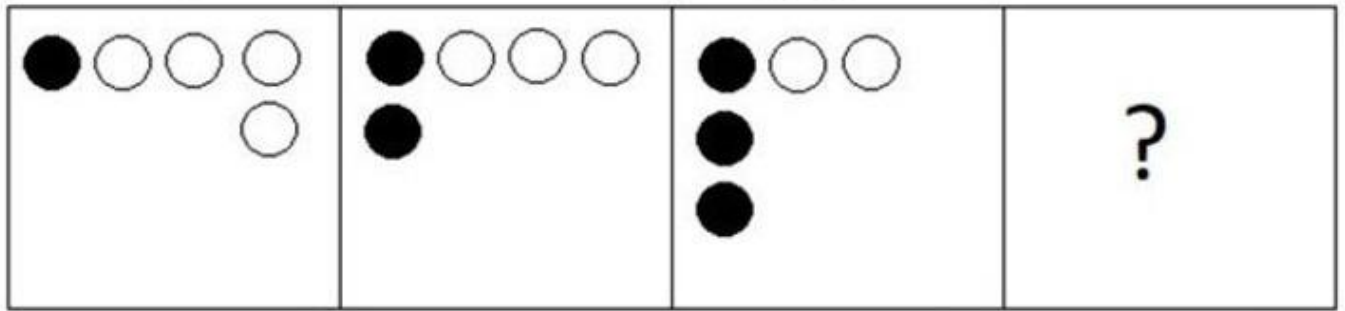


**Ans**

✗ 1.
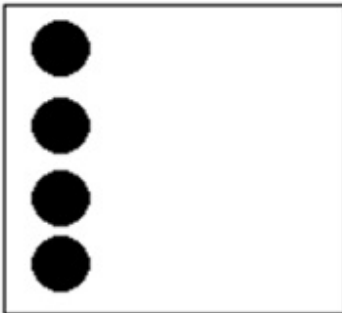


✔ 2.
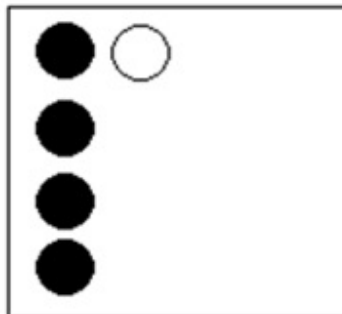


✗ 3.
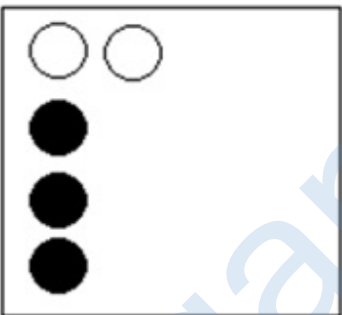


✗ 4.



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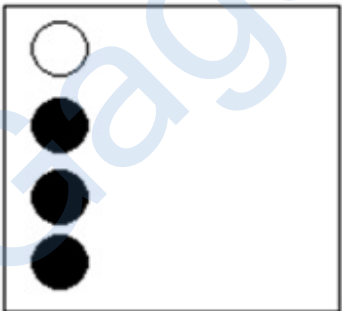
**Q.46** Which of the following numbers will replace the question mark (?) in the given series?
13, 14 , −2, 79, −177 ?

**Ans**  ✗ 1. 608

✗ 2. 528

✗ 3. 424

✔ 4. 448

**Q.47** If '+' means '−', '−' means '×', '×' means '÷' and '÷' means '+', what will come in place of '?' in the following equation?
42 × 7- 11 ÷ 57 + 10 = ?

**Ans**
   ✗ 1. 123

   ✓ 2. 113

   ✗ 3. 103

   ✗ 4. 133

---

**Q.48** Six students are sitting around a circular table facing the centre. A is an immediate neighbour of both E and D. E sits third to the right of C. D sits third to the left of F. E is an immediate neighbour of F. B sits second to the left of E. Who sits to the immediate left of C?

**Ans**
   ✗ 1. A

   ✗ 2. E

   ✓ 3. D

   ✗ 4. B

---

**Q.49** Three of the following letter-clusters are alike in some manner and one is different. Select the one that is different.

**Ans**
   ✓ 1. QJPK

   ✗ 2. KOLN

   ✗ 3. MQNP

   ✗ 4. XBYA

---

**Q.50** Six students Prateek, Sameer, Kabir, Ziya, Joseph, Kiran are sitting around a circular table facing the centre (not necessarily in the same order). Prateek is an immediate neighbour of both Sameer and Kabir. Ziya is sitting second to the right of Sameer. Kiran is sitting third to the left of Kabir. Joseph is an immediate neighbour of both Ziya and Kabir. Who is sitting to the immediate left of Joseph?

**Ans**
   ✗ 1. Kabir

   ✗ 2. Sameer

   ✗ 3. Kiran

   ✓ 4. Ziya

---

**Q.1** What is the metric unit of pressure that is equal to 0.986923 atm?

**Ans**
   ✗ 1. Yard

   ✗ 2. Quart

   ✓ 3. Bar

   ✗ 4. Gallon

---

**Q.2** During the year 1991–92, the industrial production recorded a _____growth of _____.

**Ans**
   ✗ 1. negative; 1.1 Percent

   ✗ 2. positive; 1.1 Percent

   ✗ 3. negative; 0.9 Percent

   ✓ 4. positive; 0.6 Percent

---

**Q.3** बंगाल में स्थित सिद्धेश्वर महादेव मंदिर किस राजवंश की वास्तुकला को दर्शाता है?

**Ans**
   ✓ 1. पाल राजवंश

   ✗ 2. हुसैन शाही राजवंश

   ✗ 3. चालुक्य राजवंश

   ✗ 4. शुंग राजवंश

**Q.4** निम्नलिखित में से कौन-सा तत्व एक्टिनाइड श्रेणी का सदस्य है?

**Ans** ✗ 1. ल्यूटीशियम (Lutetium)

✓ 2. थोरियम (Thorium)

✗ 3. मैग्नीशियम (Magnesium)

✗ 4. लैंथेनम (Lanthanum)

---

**Q.5** Which of the following is considered a capital expense?

**Ans** ✓ 1. Construction of school buildings

✗ 2. Payment of salaries

✗ 3. Subsidies

✗ 4. Pension

---

**Q.6** 'द ग्रेट इंडियन नॉवेल' _____ द्वारा लिखित है, जिसमें उन्होंने अपने व्यंग्य उपन्यास के लिए 'महाभारत' को एक फ्रेमवर्क के रूप में लिया है।

**Ans** ✗ 1. सरोजिनी नायडू

✓ 2. शशि थरूर

✗ 3. खुशवंत सिंह

✗ 4. कुलदीप नैय्यर

---

**Q.7** Which state was the host of fifth Khelo India Youth Games 2022?

**Ans** ✗ 1. Haryana

✓ 2. Madhya Pradesh

✗ 3. Uttarakhand

✗ 4. Jharkhand

---

**Q.8** कबड्डी में प्रथम अर्जुन पुरस्कार विजेता कौन थे?

**Ans** ✗ 1. भोलानाथ गुइन (Bholanath Guin)

✗ 2. बीसी रमेश (BC Ramesh)

✓ 3. सहानंद महादेव शेट्टी (Sahanand Mahadev Shetty)

✗ 4. मंजीत छिल्लर (Manjeet Chhillar)

---

**Q.9** In which year did the 44th Amendment remove the right to property from the list of fundamental rights?

**Ans** ✓ 1. 1978

✗ 2. 1975

✗ 3. 1973

✗ 4. 1981

---

**Q.10** By which Indian Constitutional Amendment Act was the 11th fundamental duty added in the Indian Constitution?

**Ans** ✗ 1. 87th Constitutional Amendment Act

✓ 2. 86th Constitutional Amendment Act

✗ 3. 85th Constitutional Amendment Act

✗ 4. 88th Constitutional Amendment Act

---

**Q.11** निम्नलिखित नेताओं में से किसने 1940 में कांग्रेस की महिला विंग की स्थापना की थी?

**Ans** ✗ 1. अरुणा आसफ अली

✓ 2. सुचेता कृपलानी

✗ 3. सरोजिनी नायडू

✗ 4. लक्ष्मी सहगल

**Q.12** When the President of India keeps a bill (except money bill and constitutional amendment bill) pending for an indefinite period, it is called _____.

**Ans**
✗ 1. absolute veto of the President

✗ 2. amendatory veto of the President

✓ 3. pocket veto of the President

✗ 4. suspensive veto of the President

---

**Q.13** Which of the following mosques/masjids was built during the reign of Lodi dynasty of the Delhi Sultanate?

**Ans**
✗ 1. Begumpuri mosque, Delhi

✗ 2. Quwwat al-Islam, Delhi

✗ 3. Lal Masjid, Delhi

✓ 4. Moth ki Masjid, Delhi

---

**Q.14** निम्नलिखित में से किस प्रक्रिया में पोषक तत्व या संदूषक जल द्वारा प्रवाहित हो जाते हैं या मृदा की निचली परत में चले जाते हैं?

**Ans**
✗ 1. बुआई

✓ 2. निक्षालन

✗ 3. विरंजन

✗ 4. जुताई

---

**Q.15** Where are Huka Falls located?

**Ans**
✗ 1. Germany

✗ 2. Spain

✓ 3. New Zealand

✗ 4. Australia

---

**Q.16** मध्य और पश्चिमी भारत में मनाया जाने वाला गणगौर उत्सव, किस देवी से संबंधित है?

**Ans**
✗ 1. देवी काली

✓ 2. देवी पार्वती

✗ 3. देवी लक्ष्मी

✗ 4. देवी सरस्वती

---

**Q.17** In which year was the Small Industries Development Bank of India (SIDBI) set up?

**Ans**
✗ 1. 1987

✗ 2. 1988

✗ 3. 1989

✓ 4. 1990

---

**Q.18** Terrestrial planets are composed of _____ .

**Ans**
✗ 1. metals and air

✓ 2. rocks and metals

✗ 3. metals and gas

✗ 4. rocks and gas

**Q.19** Which of the following union territories has the lowest literacy rate according to the 2011 census?

Ans ✔ 1. Dadra and Nagar Haveli

✘ 2. Daman and Diu

✘ 3. Delhi

✘ 4. Lakshadweep

**Q.20** Which of the following Acts, enacted by the British Parliament, provided for the establishment of a Law Commission for the consolidation and codification of Indian Laws?

Ans ✔ 1. Charter Act, 1833

✘ 2. Indian Council Act, 1909

✘ 3. Government of India Act, 1919

✘ 4. Charter Act, 1813

**Q.21** Which of the following is NOT a food preservative?

Ans ✔ 1. Aqua regia

✘ 2. Sodium nitrite

✘ 3. Vinegar

✘ 4. Sodium chloride

**Q.22** The number of Pawn in chess is_____.

Ans ✘ 1. 14

✘ 2. 15

✔ 3. 16

✘ 4. 17

**Q.23** Identify the third germinal layer found in triploblastic animals.

Ans ✘ 1. Coelom

✘ 2. Endoderm

✘ 3. Ectoderm

✔ 4. Mesoderm

**Q.24** Which of the following schemes adopts the One District One Product (ODOP) approach to reap the benefit of scale in terms of procurement of inputs, availing common services and marketing of products?

Ans ✘ 1. Pradhan Mantri Kisan Sampada Yojana

✘ 2. Micro and Small Enterprises Cluster Development Programme (MSE-CDP)

✔ 3. Pradhan Mantri Formalisation of Micro Food Processing Enterprises (PMFME)

✘ 4. Production Linked Incentive Scheme For Food Processing Industry (PLISFPI)

**Q.25** Who among the following is considered as the 'Father of Carnatic Music in India'?

Ans ✘ 1. Gopala

✔ 2. Purandardas

✘ 3. Krishna Bharati

✘ 4. Narayan Tirtha

**Q.26** भारत में ब्रिटिश शासन के तहत, निम्नलिखित में से किस गवर्नर जनरल ने ईस्ट इंडिया कंपनी के प्रशासन को पेशेवर, नौकरशाही और यूरोपीयकृत किया?

**Ans**
- ✗ 1. वारेन हेस्टिंग्स (Warren Hastings)
- ✗ 2. लॉर्ड कैनिंग (Lord Canning)
- ✗ 3. लॉर्ड डलहौजी (Lord Dalhousie)
- ✓ 4. लॉर्ड कॉर्नवालिस (Lord Cornwallis)

**Q.27** प्रसिद्ध संगीतकार तलवीन सिंह _____ वादन से संबंधित हैं।

**Ans**
- ✓ 1. तबला
- ✗ 2. बांसुरी
- ✗ 3. वीणा
- ✗ 4. शहनाई

**Q.28** Who was the first ecologist to describe the specific shape of eco-trophic interactions, Which he called the pyramid of numbers, in the 1920s?

**Ans**
- ✗ 1. Ernst Haeckel
- ✗ 2. Howard Thomas Odum
- ✗ 3. Edward O Wilson
- ✓ 4. Charles Elton

**Q.29** शास्त्रीय नृत्य और नर्तक के सही युग्म का चयन कीजिए।

**Ans**
- ✗ 1. के. उमा रामा राव - ओडिसी
- ✗ 2. झेलम परांजपे - कुचिपुड़ी
- ✗ 3. मल्लिका साराभाई - कथक
- ✓ 4. पद्मा सुब्रह्मण्यम - भरतनाट्यम्

**Q.30** The natural vegetation of India is broadly divided into _____ groups.

**Ans**
- ✗ 1. 7
- ✗ 2. 9
- ✗ 3. 6
- ✓ 4. 5

**Q.31** दक्षिण भारत में स्थित बांध की पहचान करें।

**Ans**
- ✓ 1. मेट्टूर बांध
- ✗ 2. रिहंद बांध
- ✗ 3. तिलैया बांध
- ✗ 4. गांधी सागर बांध

**Q.32** शत्रुओं को परास्त करने के लिए उत्तर भारत में बारूद के प्रयोग को किसने प्रचलित किया?

**Ans**
- ✓ 1. बाबर
- ✗ 2. दौलत खान लोदी
- ✗ 3. राणा सांगा
- ✗ 4. इब्राहिम लोदी

**Q.33** 2010 में, इसके उत्कृष्ट मूल्य और भेद्यता को देखते हुए, यूनेस्को (UNESCO) ने _____ के एक सदियों पुराने अनुष्ठान-नाटक 'मुदियेट्टू (Mudiyettu)' को 'मानवता की अमूर्त सांस्कृतिक विरासत' के रूप में मान्यता दी।

**Ans**
- ✗ 1. कर्नाटक
- ✗ 2. तेलंगाना
- ✗ 3. तमिलनाडु
- ✓ 4. केरल

**Q.34** कीमिया (alchemy) में एक्वा फोर्टिस (aqua fortis) किस रासायनिक यौगिक का प्राचीन नाम (classical name) है, जिसका उपयोग मुख्य रूप से विस्फोटकों और उर्वरकों के निर्माण और कार्बनिक संश्लेषण में किया जाता है?

**Ans**
- ✓ 1. नाइट्रिक अम्ल
- ✗ 2. क्लोरिक अम्ल
- ✗ 3. हाइड्रोब्रोमिक अम्ल
- ✗ 4. फॉर्मिक अम्ल

**Q.35** 'बिफोर वी विज़िट द गॉडेस (Before We Visit the Goddess)' उपन्यास के लेखक/लेखिका कौन हैं?

**Ans**
- ✗ 1. किरण दोशी
- ✓ 2. चित्रा बैनर्जी दिवाकरूणी
- ✗ 3. झुम्पा लाहिड़ी
- ✗ 4. अरुंधति राय

**Q.36** किस नोबेल पुरस्कार विजेता ने 19वीं शताब्दी के अंत में एक प्रयोग किया और पाया कि दो धातु की प्लेटों के बीच वोल्टेज आरोपित करने पर, निम्न दाबयुक्त गैस से भरी हुई काँच की नली विकिरण उत्सर्जित करती है?

**Ans**
- ✓ 1. फिलिप लेनार्ड (Philipp Lenard)
- ✗ 2. विक्टर फ्रांसिस हेस (Victor Francis Hess)
- ✗ 3. पॉल डिराक (Paul Dirac)
- ✗ 4. हिदेकी युकावा (Hideki Yukawa)

**Q.37** In which of the following Indian states does the southwest monsoon set first to give rainfall?

**Ans**
- ✗ 1. Tamil Nadu
- ✗ 2. Goa
- ✗ 3. Andhra Pradesh
- ✓ 4. Kerala

**Q.38** Which of the following Articles of the Indian Constitution mentions that all executive actions of the Government of India shall be expressed to be taken in the name of the President?

**Ans**
- ✗ 1. Article 81
- ✗ 2. Article 48
- ✓ 3. Article 77
- ✗ 4. Article 67

**Q.39** पाँचवीं शताब्दी ईस्वी का एक नाटक, मालविकाग्निमित्र, _____ द्वारा रचित है।

**Ans**
- ✗ 1. भवभूति
- ✗ 2. हरिसेना
- ✓ 3. कालिदास
- ✗ 4. पिंगला

**Q.40** In which type of tax is the marginal tax rate higher than the average tax rate?

**Ans** ✅ 1. Progressive

❌ 2. Regressive

❌ 3. Proportional

❌ 4. Digressive

**Q.41** In July 2018, an experiment aboard the International Space Station cooled a cloud of atoms of which chemical element to one ten-millionth of one Kelvin above absolute zero, forming a Bose-Einstein Condensate in space?

**Ans** ❌ 1. Thorium

❌ 2. Plutonium

✅ 3. Rubidium

❌ 4. Radium

**Q.42** अलार्मेल वल्ली (Alarmel Valli) एक भारतीय शास्त्रीय नृत्यांगना और कोरियोग्राफर हैं, और भरतनाट्यम् की _____ नृत्य शैली की सर्वप्रथम प्रतिपादक (foremost exponent) हैं।

**Ans** ❌ 1. वजुवूर शैली (Vazhuvoor style)

✅ 2. पंडनल्लूर शैली (Pandanallur style)

❌ 3. मेलत्तूर शैली (Melattur style)

❌ 4. तरंगम शैली (Tarangam style)

**Q.43** सत्रीया को _____ में संगीत नाटक अकादमी द्वारा शास्त्रीय नृत्य के रूप में मान्यता दी गई थी।

**Ans** ❌ 1. 2005

❌ 2. 2010

❌ 3. 2020

✅ 4. 2000

**Q.44** The synthesis of which chemical is inhibited due to aspirin?

**Ans** ❌ 1. Analgesics

❌ 2. Histamines

❌ 3. Pyrites

✅ 4. Prostaglandins

**Q.45** लोसर (नव वर्ष का महोत्सव) निम्नलिखित में से किस राज्य में मनाया जाता है?

**Ans** ❌ 1. उत्तराखंड

✅ 2. अरुणाचल प्रदेश

❌ 3. झारखंड

❌ 4. हिमाचल प्रदेश

**Q.46** According to the Census of India 2011, what was the percentage of Sikh communities in the total population in India?

**Ans** ❌ 1. 79.8%

❌ 2. 14.2%

✅ 3. 1.7%

❌ 4. 0.4%

**Q.47** Which of the following Acts prevents disrespect to the National Flag and National Anthem?

**Ans** ✔ 1. Prevention of Insults to National Honour Act, 1971

✘ 2. Civil Liberties Act, 2001

✘ 3. Protection of National Honour Act, 1996

✘ 4. Unlawful Activities (Prevention) Act, 2006

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**Q.48** Choose the INCORRECT statement related to monsoon.

**Ans** ✘ 1. The Southwest Monsoon winds blow over the warm oceans, gather moisture and bring widespread rainfall over the mainland of India.

✘ 2. The intensity and position of the high-pressure area, east of Madagascar, affects the Indian Monsoon.

✔ 3. The western cyclonic disturbances occur due to withdrawal or the retreat of the monsoon.

✘ 4. The difference in pressure over Tahiti (Pacific Ocean), and Darwin in northern Australia (Indian Ocean) is computed to predict the intensity of the monsoons.

---

**Q.49** A money bill under Article 111 of the Constitution of India, presented to the President for assent, has to be endorsed by a Certificate of the _____ signed by him/her that it is a money bill.

**Ans** ✘ 1. Deputy Chairman of the Rajya Sabha

✘ 2. Secretary General of the Rajya Sabha

✘ 3. Secretary General of the Lok Sabha

✔ 4. Speaker of the Lok Sabha

---

**Q.50** What is the height of the badminton net?

**Ans** ✘ 1. 6.5 feet

✘ 2. 6 feet

✔ 3. 5.1 feet

✘ 4. 5.5 feet

---

**Q.1** The following table shows the percentage of students passing out of four colleges (A,B,C and D) over four years. Study the table and answer the question that follows.

| Years | College A | College B | College C | College D |
|-------|-----------|-----------|-----------|-----------|
| 2019 | 68 | 78 | 56 | 78 |
| 2020 | 72 | 86 | 78 | 82 |
| 2021 | 78 | 91 | 82 | 85 |
| 2022 | 80 | 87 | 84 | 87 |

In which college is the average percentage of passing students over the given four years the least?

**Ans** ✘ 1. College D

✔ 2. College A

✘ 3. College B

✘ 4. College C

**Q.2** The price of a treadmill is marked at ₹1,250. A shopkeeper earns a profit of 14% after allowing a discount of 14% on the marked price. Find the cost price (to the nearest rupee) of the treadmill.

**Ans** ✔ 1. ₹943

❌ 2. ₹1,043

❌ 3. ₹840

❌ 4. ₹845

**Q.3** The speed of a boat in still water is 20 km/h, while the river is flowing at a speed of 8 km/h and the time taken to cover a certain distance upstream is 6 h more than the time taken to cover the same distance downstream. Find the distance.

**Ans** ✔ 1. 126 km

❌ 2. 125 km

❌ 3. 120 km

❌ 4. 336 km

**Q.4** What is the compound interest on a sum of ₹25,000 after three years at a rate of 12 percent per annum interest compounded yearly?

**Ans** ✔ 1. ₹10,123.20

❌ 2. ₹9,824.00

❌ 3. ₹9,956.86

❌ 4. ₹10,520.00

**Q.5** In two circles centred at O and O', the distance between the centres of both circles is 17 cm. The points of contact of a direct common tangent between the circles are P and Q. If the radii of both circles are 7 cm and 15 cm, respectively, then the length of PQ is equal to:

**Ans** ✔ 1. 15 cm

❌ 2. 22 cm

❌ 3. 10 cm

❌ 4. 17 cm

**Q.6** Aditya sold article X at a profit of 23% and article Y at a loss of 13%. He earned a profit of ₹180 in the entire transaction. If article X costs ₹90 less than article Y, then what is the price of article Y (in ₹)?

**Ans** ✔ 1. 2,007

❌ 2. 2,050

❌ 3. 2,100

❌ 4. 2,020

**Q.7** The following table shows the earning of different firms (in ₹ crore) in different years.

| Year<br>Firm | 2012 | 2013 | 2014 | 2015 | 2016 |
|---|---|---|---|---|---|
| P | 50 | 45 | 49 | 56 | 57 |
| Q | 46 | 48 | 50 | 55 | 62 |
| R | 70 | 65 | 63 | 68 | 73 |
| S | 38 | 47 | 56 | 60 | 69 |

The earning (in ₹ crore) of which firm was highest in the year 2015?

Ans    ✗ 1. S

    ✗ 2. Q

    ✔ 3. R

    ✗ 4. P

---

**Q.8** Mayur sold a watch at a profit of 7%. If he had sold it for ₹1,329 more, he would have gained 57%. Find the cost price (in ₹) of the watch.

Ans    ✗ 1. 2856

    ✔ 2. 2658

    ✗ 3. 2580

    ✗ 4. 2420

---

**Q.9** The area of an equilateral triangle is $4\sqrt{3}$ cm². Find the side (in cm) of the triangle.

Ans    ✗ 1. $2\sqrt{3}$

    ✗ 2. 2

    ✗ 3. $\sqrt{3}$

    ✔ 4. 4

---

**Q.10** If $A + \dfrac{1}{1 + \dfrac{1}{2 + \dfrac{1}{3}}} = \dfrac{9}{10}$ , then the value of A is:

Ans    ✗ 1. $\dfrac{3}{10}$

    ✗ 2. $\dfrac{2}{5}$

    ✗ 3. $\dfrac{1}{10}$

    ✔ 4. $\dfrac{1}{5}$

**Q.11** A solid sphere made of wax of radius 12 cm is melted and cast into solid hemispheres of radius 4 cm each. Find the number of such solid hemispheres.

**Ans** ✗ 1. 14

✓ 2. 54

✗ 3. 28

✗ 4. 27

**Q.12** If 4 men or 6 boys can finish a piece of work in 20 days, then in how many days can 6 men and 11 boys finish the same work?

**Ans** ✗ 1. 5

✗ 2. 7

✗ 3. 8

✓ 4. 6

**Q.13** Find the third proportional to 16 and 20.

**Ans** ✗ 1. 23

✓ 2. 25

✗ 3. 24

✗ 4. 26

**Q.14** If (48 ÷ 72 × 3) – [15 ÷ 8 × (40 – 32) – 10] + 2P = 6 ÷ 2, then find the value of P?

**Ans** ✗ 1. 2

✗ 2. 4

✗ 3. 1

✓ 4. 3

**Q.15** Study the given table and answer the question that follows.
The table shows the consumption of food grains per day (in grams) in the given set of following years.

| Year | Rice | Wheat | Coarse grains | Pulses |
|---|---|---|---|---|
| 1960-62 | 161 | 62 | 131 | 61 |
| 1970-72 | 197 | 81 | 116 | 64 |
| 1980-82 | 187 | 116 | 103 | 46 |
| 1990-92 | 189 | 124 | 101 | 44 |
| 2000-02 | 201 | 137 | 86 | 64 |

For which food grain consumption was there successive increase over the given set of years?

**Ans** ✓ 1. Wheat

✗ 2. Pulses

✗ 3. Rice

✗ 4. Coarse grains

**Q.16** Find the third proportional to 23 and 31.

**Ans**

✗ 1. $\dfrac{23}{961}$

✗ 2. $\dfrac{31}{23}$

✗ 3. $\dfrac{23}{31}$

✔ 4. $\dfrac{961}{23}$

---

**Q.17** Study the given pie-chart and answer the question that follows.

The pie-chart shows the expenditure of a family on different items and their savings throughout the year 2021.
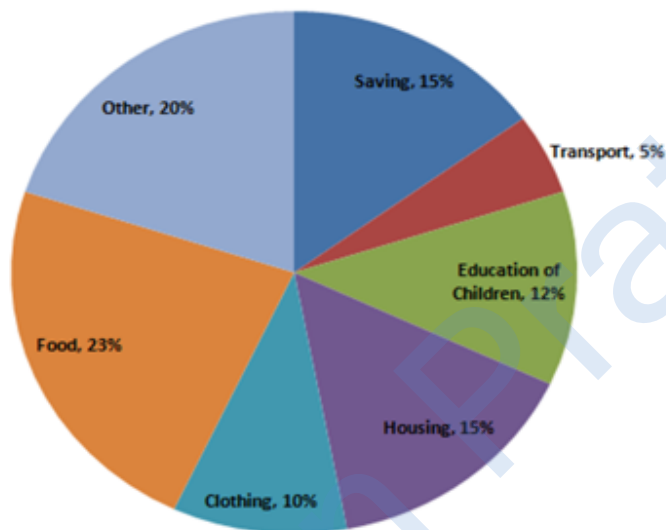


If the total income of the family was ₹1,00,000, how much money (in ₹) was spent on the education of the children?

**Ans**

✗ 1. 13,500

✗ 2. 13,000

✔ 3. 12,000

✗ 4. 12,500

---

**Q.18** In an election, Ajay and Mohan are contesting for the Secretary post in a trade union of 9000 workers. 80% of the workers cast their votes, out of which 20% votes were found invalid. Ajay defeated Mohan by 1152 votes. How many votes did Ajay get?

**Ans**

✗ 1. 4480

✗ 2. 3546

✔ 3. 3456

✗ 4. 2304

**Q.19** The average weight of 15 people increases by 3.2 kg when a new person comes in place of one of them weighing 52 kg. The weight of the new person is:

**Ans**   ✗ 1. 96 kg

   ✓ 2. 100 kg

   ✗ 3. 52 kg

   ✗ 4. 48 kg

**Q.20** Study the given graph and answer the following question.
Number of boys and girls students in each section.
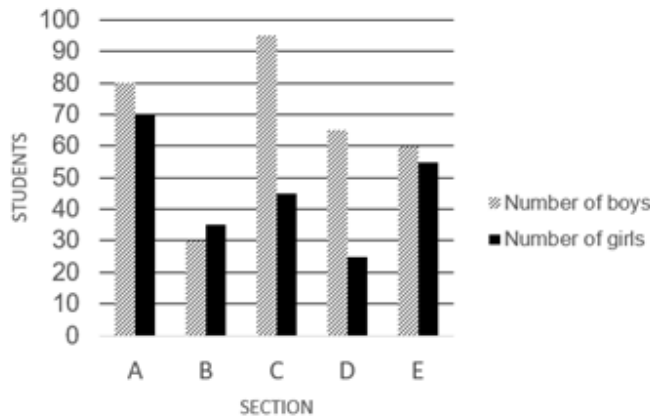


The number of boy students in section B is approximately what percentage of the number of girl students in section E?

**Ans**   ✗ 1. 25%

   ✗ 2. 45%

   ✓ 3. 55%

   ✗ 4. 15%

**Q.21** Study the given table and answer the question that follows.

The table shows the number of pages printed by four printers in three days.

| Days | Printers | | | |
|---|---|---|---|---|
| | A | B | C | D |
| Friday | 350 | 451 | 412 | 206 |
| Saturday | 420 | 325 | 365 | 251 |
| Sunday | 238 | 198 | 258 | 326 |

What is the respective ratio between total number of pages printed by printer D on Friday and Sunday together and total number of pages printed by printer A on Friday and Saturday together?

**Ans**   ✗ 1. 51 : 34

   ✗ 2. 34 : 51

   ✗ 3. 55 : 38

   ✓ 4. 38 : 55

**Q.22** A shopkeeper allows a discount of 15% on an article and still makes a profit of 20%. What does the shopkeeper pay for an article whose marked price is ₹7,200?

**Ans**   ✓ 1. ₹5,100

   ✗ 2. ₹5,120

   ✗ 3. ₹6,100

   ✗ 4. ₹6,120

**Q.23** What is the HCF of 12, 18 and 42?

**Ans**
  ✗ 1. 60
  ✗ 2. 12
  ✗ 3. 123
  ✓ 4. 6

---

**Q.24** The length and the breadth of the floor of a rectangular hall are 126 feet and 90 feet, respectively. What will be the area (in square feet) of each of the largest identical square tiles that can be used to tile this floor in a way that no part of the floor remains uncovered?

**Ans**
  ✗ 1. 196
  ✗ 2. 256
  ✓ 3. 324
  ✗ 4. 484

---

**Q.25** A vendor bought a book marked at ₹850 at successive discounts of 20% and 10%, respectively. He spent ₹55 on transport and sold the book for ₹980. What will be his profit percentage (rounded off to 2 decimal places)?

**Ans**
  ✓ 1. 46.93%
  ✗ 2. 50.65%
  ✗ 3. 48.25%
  ✗ 4. 45.65%

---

**Q.26** Following is the figure showing the sales of different items of a stationery shop. Which product recorded the highest percentage change from 2020 to 2021?



Sales (in thousands)
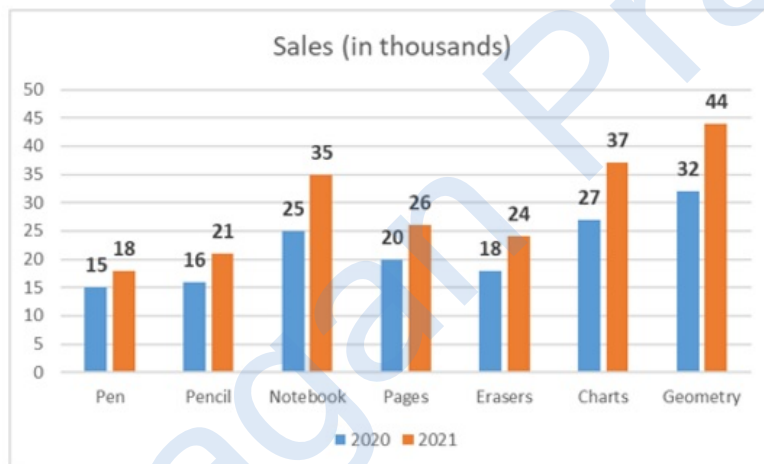
**Ans**
  ✗ 1. Charts
  ✗ 2. Pages
  ✓ 3. Notebook
  ✗ 4. Geometry

---

**Q.27** The area of an equilateral triangle is 173.2 cm$^2$. Its side will be _____.

**Ans**
  ✓ 1. 20 cm
  ✗ 2. 21.32 cm
  ✗ 3. 17.32 cm
  ✗ 4. 22 cm

**Q.28** If $\sin\theta + \cos\theta = \dfrac{\sqrt{11}}{3}$, then the value of $(\cos\theta - \sin\theta)$ is:

Ans

✗ 1. $\dfrac{\sqrt{5}}{3}$

✗ 2. $\dfrac{7}{3}$

✗ 3. $\dfrac{5}{3}$

✔ 4. $\dfrac{\sqrt{7}}{3}$

**Q.29** Jeevan can do a piece of work alone in 42 days, while Rishi and Jeevan together can do the same piece of work in 27 days. How many days will Rishi take to complete the same piece of work alone?

Ans

✗ 1. $75\dfrac{4}{5}$

✗ 2. $75\dfrac{1}{5}$

✔ 3. $75\dfrac{3}{5}$

✗ 4. $74\dfrac{3}{5}$

**Q.30** If $x\left(5 - \dfrac{2}{x}\right) = \dfrac{5}{x}$, then the value of $x^2 + \dfrac{1}{x^2}$ is:

Ans

✗ 1. $\dfrac{54}{23}$

✗ 2. $\dfrac{53}{28}$

✗ 3. $\dfrac{53}{27}$

✔ 4. $\dfrac{54}{25}$

**Q.31** If sin 2A = cos 15°, then the smallest positive value of A is:

Ans

✗ 1. 7.5°

✗ 2. 47.5°

✗ 3. 75°

✔ 4. 37.5°

**Q.32** Find the area of a rhombus if the perimeter of the rhombus is 52 cm, and one of its diagonals is 10 cm long.

Ans

✗ 1. 164 cm²

✗ 2. 144 cm²

✗ 3. 160 cm²

✔ 4. 120 cm²

**Q.33** The area of a sector of a circle of radius 8 cm, formed by an arc of length 4.6 cm, is _____.

**Ans**
✅ 1. $18.4$ cm$^2$

❌ 2. $6.3$ cm$^2$

❌ 3. $9.2$ cm$^2$

❌ 4. $12.6$ cm$^2$

**Q.34** The LCM of two prime numbers x and y (x > y) is 533. The value of 4y - x is:

**Ans**
✅ 1. 11

❌ 2. 21

❌ 3. 18

❌ 4. 23

**Q.35** In an election between P and Q, P gets 40% of the total votes and thus loses by 10 votes. The total number of votes is:

**Ans**
❌ 1. 90

❌ 2. 80

❌ 3. 70

✅ 4. 50

**Q.36** Ramesh does half as much work as Parul in $\frac{4}{5}$ of the time. If together Ramesh and Parul take 24 days to complete the work, then how much time will Parul take to do it?

**Ans**
❌ 1. 37 days

❌ 2. 38 days

❌ 3. 41 days

✅ 4. 39 days

**Q.37** The curved surface area (CSA) and the total surface area (TSA) of a hemisphere whose radius is 7 cm are:

**Ans**
✅ 1. CSA – $308$ cm$^2$; TSA – $462$ cm$^2$

❌ 2. CSA – $320$ cm$^2$; TSA – $480$ cm$^2$

❌ 3. CSA – $412$ cm$^2$; TSA – $544$ cm$^2$

❌ 4. CSA – $350$ cm$^2$; TSA – $500$ cm$^2$

**Q.38** A speedboat, whose speed in 20 km/h in still water, goes 35 km downstream and comes back in a total of 8 hours. What is the speed of the stream?

**Ans**
✅ 1. 15 km/h

❌ 2. 10 km/h

❌ 3. 20 km/h

❌ 4. 5 km/h

**Q.39** In a ∆PQR and ∆ ABC, ∠P = ∠A and AC = PR. Which of the following conditions is true for triangle PQR and ABC to be congruent?

**Ans**
✅ 1. AB = PQ by SAS

❌ 2. AB = PQ by SSS

❌ 3. BC = QR by ASS

❌ 4. ∠Q = ∠B by AAA

**Q.40** The least number which should be added to 1351 so that the sum is exactly divisible by 2,4,6 and 8 is:

**Ans** ✗ 1. 13

✗ 2. 11

✗ 3. 15

✔ 4. 17

**Q.41** If the radius of a sphere is doubled, then its surface area will be increased by:

**Ans** ✗ 1. 200%

✗ 2. 100%

✔ 3. 300%

✗ 4. 400%

**Q.42** What should be the value in place of (?) in $7\frac{5}{8} + \frac{5}{8}$ of $184 \times 15 \div 5 - (?) = 0$.

**Ans** ✗ 1. $152\frac{1}{8}$

✔ 2. $352\frac{5}{8}$

✗ 3. $-152\frac{1}{8}$

✗ 4. $-352\frac{5}{8}$

**Q.43** Study the given pie-chart and answer the question that follows.
The pie-chart is about Country-wise Global Exports Presentation.



Total Export = ₹ 14400 billion
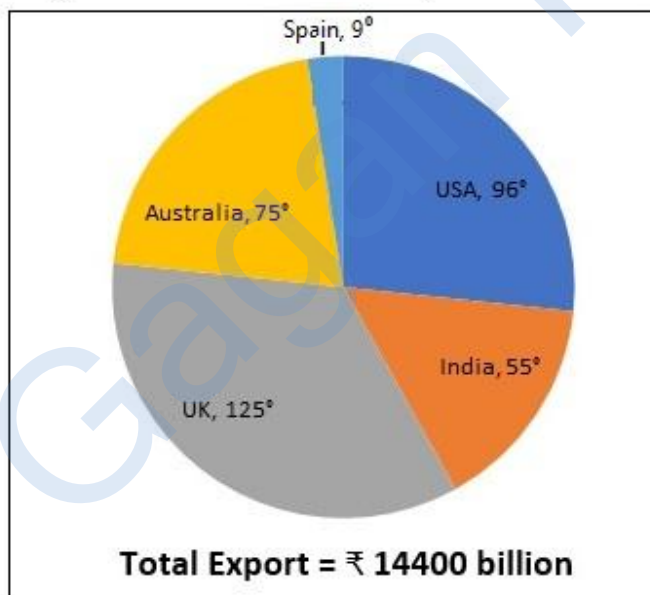
By how much does the value of the exports of UK exceed that of Australia (in ₹ billion)?

**Ans** ✔ 1. 2,000

✗ 2. 1,440

✗ 3. 2,550

✗ 4. 1,500

**Q.44** Two numbers are in the ratio of 4 : 3. The product of their HCF and LCM is 2700. The difference between the numbers is:

**Ans** ✗ 1. 25

✗ 2. 30

✔ 3. 15

✗ 4. 105

**Q.45** If 60 litres of a milk solution has 40% milk in it, then how much milk should be added to make the milk 60% in the solution?

**Ans** ✔ 1. 30 litres

✗ 2. 20 litres

✗ 3. 35 litres

✗ 4. 25 litres

**Q.46** A person covers 28 km while walking at a speed of 8 km/h. How much distance (in km) will he cover in same time if he walks at a speed of 6 km/h?

**Ans** ✗ 1. 36

✔ 2. 21

✗ 3. 28

✗ 4. 32

**Q.47** If $A + B = 90°$, then the expression $\frac{\cot A}{\cot B} + \cos^2 A + \cos^2 B$ is equal to:

**Ans** ✗ 1. $\cot^2 B$

✔ 2. $\csc^2 A$

✗ 3. $\csc^2 B$

✗ 4. $\cot^2 A$

**Q.48** If $\tan A = \frac{2}{5}$ find the value of $\frac{\sec^2 A}{\csc^2 A}$.

**Ans** ✗ 1. $\dfrac{3}{5}$

✔ 2. $\dfrac{4}{25}$

✗ 3. $\dfrac{2}{5}$

✗ 4. $\dfrac{9}{25}$

**Q.49** Ramesh borrowed some money at rate of 5% per annum for the first four years, 8% per annum for the next six years, and 12% per annum for the period beyond ten years. If the total interest paid by him at the end of twelve years is ₹9,016, then find the money borrowed by Ramesh.

**Ans** ✔ 1. ₹9,800

✗ 2. ₹9,616

✗ 3. ₹9,816

✗ 4. ₹9,016

**Q.50** Study the given table and answer the question that follows.
The table shows the number of employees in five different organisations A, B, C, D and E in different departments.

| Dept ↓ Org→ | A | B | C | D | E |
|---|---|---|---|---|---|
| HR | 1050 | 1015 | 976 | 888 | 1004 |
| Finance | 1017 | 960 | 786 | 1025 | 963 |
| Marketing | 1382 | 1384 | 1275 | 1300 | 1290 |
| Production | 1542 | 1545 | 4550 | 1570 | 1580 |
| Accounts | 786 | 745 | 801 | 800 | 735 |
| Legal | 48 | 54 | 36 | 30 | 53 |
| Total | 5825 | 5703 | 5424 | 5613 | 5625 |

Which organisation has minimum number of employees?

**Ans** ✗ 1. D

✗ 2. B

✔ 3. C

✗ 4. E

---

**Q.1** Select the most appropriate idiom or phrase to complete the given sentence.

I like her because she never likes to make _____.

**Ans** ✗ 1. a drop in the bucket

✔ 2. a quick buck

✗ 3. a slap on the wrist

✗ 4. a bed of roses

---

**Q.2** Select the INCORRECTLY spelt word.

**Ans** ✗ 1. Airplane

✗ 2. Helicopter

✔ 3. Gllidder

✗ 4. Ladybug

---

**Q.3** Select the most appropriate ANTONYM of the given word.
Specific

**Ans** ✗ 1. Topple

✗ 2. Lawful

✗ 3. Stroll

✔ 4. Random

---

**Q.4** Select the option that can be used as a one-word substitute for the given group of words.

No longer used because something new has been invented

**Ans** ✗ 1. Ornamental

✔ 2. Obsolete

✗ 3. Classic

✗ 4. Ancient

**Q.5** Select the most appropriate meaning of the given idiom.
**Keep count of**

Ans ✗ 1. To act more politely

✗ 2. To accept an invitation

✓ 3. To remember a total

✗ 4. To remind of a deadline

**Q.6** Select the most appropriate meaning of the underlined word.
**Saurabh <u>imitates</u> his boss perfectly.**

Ans ✗ 1. Admires

✗ 2. Worships

✓ 3. Copies

✗ 4. Hates

**Q.7** Select the most appropriate phrasal verb to fill in the blank.
**Though Pradeep _____ for Jamaica, he landed up in Nigeria.**

Ans ✓ 1. set out

✗ 2. set up

✗ 3. set about

✗ 4. set aside

**Q.8** Select the most appropriate synonym of the given word.

**Benevolent**

Ans ✓ 1. Generous

✗ 2. Innocent

✗ 3. Wicked

✗ 4. Cruel

**Q.9** The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

**There is a spectrum / of seas around that / land which attracts / tourists of all aging.**

Ans ✗ 1. There is a spectrum

✗ 2. land which attracts

✗ 3. of seas around that

✓ 4. tourists of all aging.

**Q.10** Select the most appropriate meaning of the given idiom.

**Grasping at straws**

Ans ✗ 1. Trying to find the best way to compete with others when nothing you choose is likely to work

✓ 2. Trying to find some way to succeed when nothing you choose is likely to work

✗ 3. Trying to find some way to succeed when you see others are also doing the same

✗ 4. Trying to find manipulative ways to succeed

**Q.11** Select the most appropriate ANTONYM of the given word.

**Beneficent**

Ans ✗ 1. Soft

✗ 2. Friendly

✓ 3. Cruel

✗ 4. Lethargic

**Q.12** Select the most appropriate synonym of the word 'disclosed' in the given sentence and choose the correct option.

The linguist's analysis of the language revealed patterns and structures that were previously unknown.

Ans ✗ 1. Linguist

✓ 2. Revealed

✗ 3. Patterns

✗ 4. Unknown

---

**Q.13** Select the option that can be used as a one-word substitute for the given group of words.
Detailed list of goods dispatched with quantity and price to the purchaser.

Ans ✗ 1. Ledger

✗ 2. Receipt

✓ 3. Invoice

✗ 4. Sales

---

**Q.14** Select the most appropriate one-word substitution of the given group of words.

A pretence of having a virtuous character, moral or religious beliefs or principles, etc., that one does not really possess.

Ans ✗ 1. Gullibility

✗ 2. Shrewdness

✗ 3. Naivety

✓ 4. Hypocrisy

---

**Q.15** The following sentence has been split into four segments. Identify the segment that contains a grammatical error.
My apartment / in Delhi / is situated / on second floor.

Ans ✓ 1. on second floor

✗ 2. in Delhi

✗ 3. My apartment

✗ 4. is situated

---

**Q.16** Select the most appropriate ANTONYM of the given word.
Glad

Ans ✗ 1. Loyal

✓ 2. Sad

✗ 3. Keen

✗ 4. Pleased

---

**Q.17** Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.
I like to read books, but my brother prefers to watching movies.

Ans ✗ 1. No substitution

✓ 2. to watch

✗ 3. in watching

✗ 4. on watching

---

**Q.18** Select the grammatically correct sentence.

Ans ✓ 1. The simple mistake which was committed by the boy haunted her for years.

✗ 2. An simple mistake which was committed by the boy haunted her for years.

✗ 3. The simple mistake which was committed by an boy haunted her for years.

✗ 4. A simple mistake which was committed by an boy haunted her for years.

**Q.19** Select the most appropriate option that can substitute the underlined idiom/phrase in the given sentence.
You cannot <u>throw dust into my eyes.</u>

Ans
✗ 1. hurt me

✗ 2. terrify me

✗ 3. abuse me

✓ 4. mislead or deceive me

**Q.20** Select the most appropriate idiom to fill in the blank.

I was going to mention it, but it _____.

Ans
✗ 1. bore in mind

✓ 2. slipped my mind

✗ 3. changed my mind

✗ 4. brought to mind

**Q.21** Select the most appropriate one-word substitution of the given group of words.

A state of intense happiness and self-confidence.

Ans
✓ 1. Euphoria

✗ 2. Touché

✗ 3. Intoxication

✗ 4. Oblivion

**Q.22** Select the most appropriate meaning of the given idiom.
A plum job

Ans
✗ 1. A difficult job

✗ 2. A rare job

✗ 3. A job involving extensive travelling

✓ 4. An easy and pleasant job

**Q.23** Select the most appropriate idiom that can substitute the underlined segment in the given sentence.

He <u>made a mess</u> of that bookcase he was supposed to be repairing.

Ans
✗ 1. brought a dog's breast

✗ 2. made a clean breast

✓ 3. made a pig's ear

✗ 4. had a butcher hook

**Q.24** Select the most appropriate meaning of the given idiom.
Keep a straight face

Ans
✗ 1. Get on extremely well with someone

✓ 2. Not laugh or change your expression even though you want to laugh

✗ 3. Become very confused

✗ 4. Make more of an effort

**Q.25** Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.

This case is serious. You need to <u>look into</u> this matter; otherwise, the situation will get out of control soon.

Ans    ✗ 1. look after

     ✓ 2. No substitution

     ✗ 3. look up

     ✗ 4. look at

---

**Q.26** Select the most appropriate ANTONYM of the given word.

**Contempt**

Ans    ✓ 1. Regard

     ✗ 2. Mockery

     ✗ 3. Deny

     ✗ 4. Immoral

---

**Q.27** In the following sentence, four words are underlined, out of which one word is incorrectly spelt. Identify the INCORRECTLY spelt word.
The <u>ruins</u> of many structures that still stand tall in their <u>granduer</u> are <u>testimony</u> to the fact that Mewar was not only the land of the <u>courageous</u> .

Ans    ✓ 1. granduer

     ✗ 2. courageous

     ✗ 3. testimony

     ✗ 4. ruins

---

**Q.28** Select the most appropriate meaning of the given idiom.

**Face the music**

Ans    ✗ 1. To work every possible way to succeed

     ✗ 2. To be cheated by someone you trust

     ✗ 3. To have the problems with money

     ✓ 4. To accept punishment for some mistake which you have done

---

**Q.29** Select the option that can be used as a one-word substitute for the given group of words.

**To criticise someone severely**

Ans    ✗ 1. Rate

     ✓ 2. Chastise

     ✗ 3. Scoff

     ✗ 4. Remonstrate

---

**Q.30** Choose the most appropriate meaning of the underlined phrase.
Ram could not go to Delhi for vacation since he <u>was banking on</u> his arrears of pay which he did not get in time

Ans    ✗ 1. Calling on

     ✗ 2. Sloping on

     ✓ 3. Relying on

     ✗ 4. Depending on his bank

**Q.31** Select the option that can be used as a one-word substitute for the given group of words.

**Huge fire for celebration**

Ans ✗ 1. Agenda

✗ 2. Campaign

✓ 3. Bonfire

✗ 4. Crossfire

**Q.32** In the following sentence, four words are underlined, out of which one word is incorrectly spelt. Identify the INCORRECTLY spelt word.
Traffic accidents are increasing steadily, and large cities are <u>plaged</u> by traffic <u>congestion</u>. Worst of all is the air pollution caused by internal <u>combustion</u> engine, <u>uninterruptedly</u>.

Ans ✓ 1. plaged

✗ 2. congestion

✗ 3. combustion

✗ 4. uninterruptedly

**Q.33** Select the sentence that has a spelling error.

A- A fisherman, enfeebled with age, could no longer go out to sea so he began fishing in the river.
B- Every morning he would go down to the river and sit there fishing the whole day long.
C- In the evening, he would sell whatever he had caught, buy food for himself and go home.
D- One hot afternoon, while he was bemoaning his fate, a large bird alited near him.

Ans ✗ 1. A fisherman, enfeebled with age, could no longer go out to sea so he began fishing in the river.

✓ 2. One hot afternoon, while he was bemoaning his fate, a large bird alited near him.

✗ 3. Every morning he would go down to the river and sit there fishing the whole day long.

✗ 4. In the evening, he would sell whatever he had caught, buy food for himself and go home.

**Q.34** Select the most appropriate synonym of the given word.
**Unequivocal**

Ans ✓ 1. Unambiguous

✗ 2. Doubted

✗ 3. Complete

✗ 4. Articulate

**Q.35** Select the most appropriate meaning of the underlined word.
**We shouldn't blame or <u>envy</u> anyone.**

Ans ✓ 1. Jealousy

✗ 2. Reap

✗ 3. Love

✗ 4. Curse

**Q.36** Identify the option that rectifies the spelling of the incorrectly spelt word in the given sentence.

The disadvantages of listening to music at a loud voluume include loss of hearing.

Ans ✗ 1. Lose

✓ 2. Volume

✗ 3. Lissening

✗ 4. Heering

**Q.37** Select the option that can be used as a one-word substitute for the given group of words.

To make a low continuous vibratory sound expressing contentment (of a cat).

**Ans**   ✗ 1. To meow

   ✗ 2. To buzz

   ✗ 3. To roar

   ✔ 4. To purr

**Q.38** Select the option that can be used as a one-word substitute for the given group of words.

Minimum people needed for a meeting

**Ans**   ✗ 1. Forum

   ✔ 2. Quorum

   ✗ 3. Addendum

   ✗ 4. Decorum

**Q.39** Select the most appropriate option that can substitute the underlined segment in the given sentence.

O' Henry's short stories are read all over the world till now because they are pithy.

**Ans**   ✗ 1. exaggerated yet short

   ✗ 2. fascinating and lengthy

   ✔ 3. concise and expressive

   ✗ 4. elusive and unreal

**Q.40** Select the most appropriate synonym of the given word.

Vulnerable

**Ans**   ✔ 1. Susceptible

   ✗ 2. Amiable

   ✗ 3. Guarded

   ✗ 4. Delectable

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

When another old cave is discovered in the south of France, it is not (1)_____ in news. Rather, it is an ordinary event. Such discoveries are so (2)_____ these days that hardly anybody pays heed to them. However, when the Lascaux cave complex was discovered in 1940, the world was (3)_____. Painted directly on its walls were hundreds of scenes showing how people lived thousands of years ago. The scenes show people hunting animals, such as bison or wild cats. Other images (4)_____ birds and, most noticeably, horses, which appear in more than 300 wall images, by far (5)_____ all other animals.

**SubQuestion No : 41**

**Q.41** Select the most appropriate option to fill in blank number 1.

**Ans**   ✔ 1. usually

   ✗ 2. nearly

   ✗ 3. merrily

   ✗ 4. suitably

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

When another old cave is discovered in the south of France, it is not (1)_____ in news. Rather, it is an ordinary event. Such discoveries are so (2)_____ these days that hardly anybody pays heed to them. However, when the Lascaux cave complex was discovered in 1940, the world was (3)_____. Painted directly on its walls were hundreds of scenes showing how people lived thousands of years ago. The scenes show people hunting animals, such as bison or wild cats. Other images (4)_____ birds and, most noticeably, horses, which appear in more than 300 wall images, by far (5)_____ all other animals.

**SubQuestion No : 42**

**Q.42** **Select the most appropriate option to fill in blank number 2.**

**Ans** ✗ 1. ghastly

✓ 2. frequent

✗ 3. delusional

✗ 4. disorderly

---

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

When another old cave is discovered in the south of France, it is not (1)_____ in news. Rather, it is an ordinary event. Such discoveries are so (2)_____ these days that hardly anybody pays heed to them. However, when the Lascaux cave complex was discovered in 1940, the world was (3)_____. Painted directly on its walls were hundreds of scenes showing how people lived thousands of years ago. The scenes show people hunting animals, such as bison or wild cats. Other images (4)_____ birds and, most noticeably, horses, which appear in more than 300 wall images, by far (5)_____ all other animals.

**SubQuestion No : 43**

**Q.43** **Select the most appropriate option to fill in blank number 3.**

**Ans** ✗ 1. overthrown

✗ 2. crushed

✗ 3. encouraged

✓ 4. baffled

---

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

When another old cave is discovered in the south of France, it is not (1)_____ in news. Rather, it is an ordinary event. Such discoveries are so (2)_____ these days that hardly anybody pays heed to them. However, when the Lascaux cave complex was discovered in 1940, the world was (3)_____. Painted directly on its walls were hundreds of scenes showing how people lived thousands of years ago. The scenes show people hunting animals, such as bison or wild cats. Other images (4)_____ birds and, most noticeably, horses, which appear in more than 300 wall images, by far (5)_____ all other animals.

**SubQuestion No : 44**

**Q.44** **Select the most appropriate option to fill in blank number 4.**

**Ans** ✓ 1. depict

✗ 2. determine

✗ 3. imprint

✗ 4. require

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

When another old cave is discovered in the south of France, it is not (1)_____ in news. Rather, it is an ordinary event. Such discoveries are so (2)_____ these days that hardly anybody pays heed to them. However, when the Lascaux cave complex was discovered in 1940, the world was (3)_____. Painted directly on its walls were hundreds of scenes showing how people lived thousands of years ago. The scenes show people hunting animals, such as bison or wild cats. Other images (4)_____ birds and, most noticeably, horses, which appear in more than 300 wall images, by far (5)_____ all other animals.

**SubQuestion No : 45**

**Q.45 Select the most appropriate option to fill in blank number 5.**

Ans  ✗ 1. outlasting

  ✗ 2. outreaching

  ✓ 3. outnumbering

  ✗ 4. outsourcing

---

**Comprehension:**

Read the given passage and answer the questions that follow.

Climate policy must now put health at the centre and promote climate change mitigation policies that bring health benefits simultaneously. Health-focused climate policy would help bring about a planet that has cleaner air, more abundant and safer freshwater and food, more effective and fairer health and social protection systems and, as a result, healthier people. Investment in clean energy will yield health gains that repay those investments twice over. There are proven interventions able to reduce emissions of short-lived climate pollutants, for instance applying higher standards for vehicle emissions, which have been calculated to save approximately 2.4 million lives per year, through improved air quality and reduce global warming by about 0.5°C by 2050. The cost of renewable sources of energy has decreased significantly in the last few years, and solar energy is now cheaper than coal or gas in most major economies.

**SubQuestion No : 46**

**Q.46 What is the ANTONYM for the word 'intervention', from the passage?**

Ans  ✗ 1. Specific

  ✗ 2. Evidence

  ✓ 3. Non-involvement

  ✗ 4. Data

---

**Comprehension:**

Read the given passage and answer the questions that follow.

Climate policy must now put health at the centre and promote climate change mitigation policies that bring health benefits simultaneously. Health-focused climate policy would help bring about a planet that has cleaner air, more abundant and safer freshwater and food, more effective and fairer health and social protection systems and, as a result, healthier people. Investment in clean energy will yield health gains that repay those investments twice over. There are proven interventions able to reduce emissions of short-lived climate pollutants, for instance applying higher standards for vehicle emissions, which have been calculated to save approximately 2.4 million lives per year, through improved air quality and reduce global warming by about 0.5°C by 2050. The cost of renewable sources of energy has decreased significantly in the last few years, and solar energy is now cheaper than coal or gas in most major economies.

**SubQuestion No : 47**

**Q.47 Which is the best description of the tone of the passage?**

Ans  ✗ 1. Technical

  ✗ 2. Biased

  ✗ 3. Cynical

  ✓ 4. Humanistic

**Comprehension:**

Read the given passage and answer the questions that follow.

Climate policy must now put health at the centre and promote climate change mitigation policies that bring health benefits simultaneously. Health-focused climate policy would help bring about a planet that has cleaner air, more abundant and safer freshwater and food, more effective and fairer health and social protection systems and, as a result, healthier people. Investment in clean energy will yield health gains that repay those investments twice over. There are proven interventions able to reduce emissions of short-lived climate pollutants, for instance applying higher standards for vehicle emissions, which have been calculated to save approximately 2.4 million lives per year, through improved air quality and reduce global warming by about 0.5°C by 2050. The cost of renewable sources of energy has decreased significantly in the last few years, and solar energy is now cheaper than coal or gas in most major economies.

**SubQuestion No : 48**

**Q.48** **What is the ANTONYM for the word 'promote', from the passage?**

**Ans** ✗ 1. Invade

✗ 2. Conduct

✔ 3. Obstruct

✗ 4. Exclude

---

**Comprehension:**

Read the given passage and answer the questions that follow.

Climate policy must now put health at the centre and promote climate change mitigation policies that bring health benefits simultaneously. Health-focused climate policy would help bring about a planet that has cleaner air, more abundant and safer freshwater and food, more effective and fairer health and social protection systems and, as a result, healthier people. Investment in clean energy will yield health gains that repay those investments twice over. There are proven interventions able to reduce emissions of short-lived climate pollutants, for instance applying higher standards for vehicle emissions, which have been calculated to save approximately 2.4 million lives per year, through improved air quality and reduce global warming by about 0.5°C by 2050. The cost of renewable sources of energy has decreased significantly in the last few years, and solar energy is now cheaper than coal or gas in most major economies.

**SubQuestion No : 49**

**Q.49** **Which of the following most accurately states the central idea of the passage?**

**Ans** ✗ 1. Pollution

✗ 2. Greenhouse gases

✔ 3. Climate policy for health

✗ 4. Fossil fuels

---

**Comprehension:**

Read the given passage and answer the questions that follow.

Climate policy must now put health at the centre and promote climate change mitigation policies that bring health benefits simultaneously. Health-focused climate policy would help bring about a planet that has cleaner air, more abundant and safer freshwater and food, more effective and fairer health and social protection systems and, as a result, healthier people. Investment in clean energy will yield health gains that repay those investments twice over. There are proven interventions able to reduce emissions of short-lived climate pollutants, for instance applying higher standards for vehicle emissions, which have been calculated to save approximately 2.4 million lives per year, through improved air quality and reduce global warming by about 0.5°C by 2050. The cost of renewable sources of energy has decreased significantly in the last few years, and solar energy is now cheaper than coal or gas in most major economies.

**SubQuestion No : 50**

**Q.50** **Which of the following represents the structure of the passage?**

**Ans** ✔ 1. Problem-solution

✗ 2. Chronology

✗ 3. Critique

✗ 4. Definition

**Q.1** If A, B, C, D and E denote +,–, ×, ÷ and =, respectively, then which of the following options is correct?

**Ans** ✗ 1. 4A9C6D2B40E9

✗ 2. 4A9C6D2E40A9

✗ 3. 4A9E6D2C40B9

✓ 4. 4A9C6D2E40B9

**Q.2** Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)
**Wrestling : Arena :: Ice-Skating : ?**

**Ans** ✗ 1. Stadium

✗ 2. Ground

✓ 3. Rink

✗ 4. Track

**Q.3** Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term.
**142 : 108 :: 185 : ? :: 169 : 135**

**Ans** ✓ 1. 151

✗ 2. 148

✗ 3. 157

✗ 4. 162

**Q.4** A paper is folded and cut as shown. How will it appear when unfolded?



**Ans**

 ✔ 1.

 ✘ 2.

 ✘ 3.

 ✘ 4.

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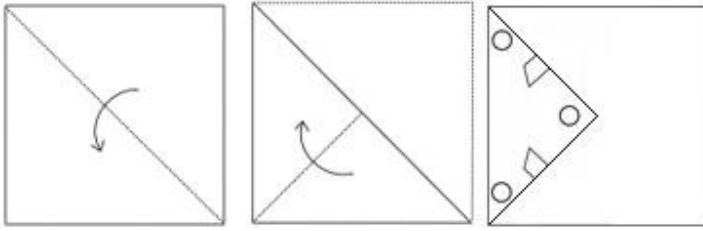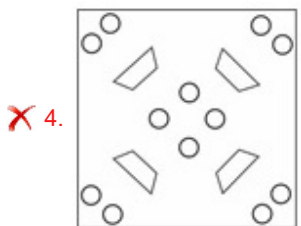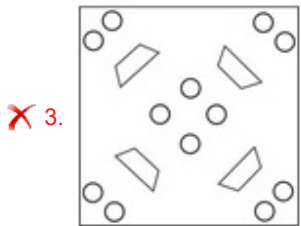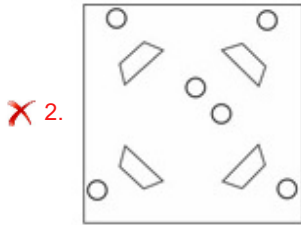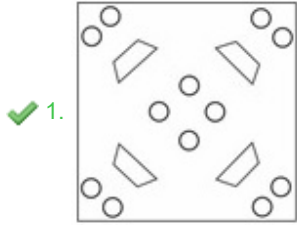
**Q.5** In a certain code language, 'ASIA' is written as 'ZHRZ' and 'IRELAND' is written as 'RIVOZMW'. How will 'NORWAY' be written in that language?

**Ans** ✘ 1. MJIDZB

✔ 2. MLIDZB

✘ 3. NLISZB

✘ 4. NJIDZB

---

**Q.6** Six friends are sitting in a circle. All of them are facing the centre. Kanak sits third to the right of Sona. Kapil is an immediate neighbour of Mani. Goldy sits second to the right of Mani. Sona is an immediate neighbour of Kapil and Suresh.
Who sits second to the left of Kanak?

**Ans** ✘ 1. Suresh

✘ 2. Goldy

✘ 3. Mani

✔ 4. Kapil

**Q.7** A man is standing in the park facing North. He turns to 90° towards the left and walks 40 km. He again takes a 90° turn towards the right and walks 50 km. He takes the next 90° turn towards the right and walks 60 km. Lastly, he takes 90° turn towards the right and walks 50 km. How much distance is he from the starting point?

**Ans** ✗ 1. 50 km

✗ 2. 60 km

✗ 3. 40 km

✓ 4. 20 km

**Q.8** If '+' means '−', '−' means '×', '×' means '÷', '÷' means '+', then what will come in place of the question mark (?) in the following equation?
124 × 4 ÷ 13 − 3 + 36 = ?

**Ans** ✗ 1. 31

✗ 2. 42

✗ 3. 45

✓ 4. 34

**Q.9** Two statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.
Statements:
All cars are vehicles.
All vehicles are trucks.
Conclusions:
I) All cars are trucks.
II) All trucks are vehicles.

**Ans** ✗ 1. Neither Conclusion I nor II follows.

✗ 2. Both Conclusions I and II follow

✓ 3. Only Conclusion I follows.

✗ 4. Only Conclusion II follows.

**Q.10** Which of the following numbers will replace the question mark (?) in the given series?
352, 326, 284, 225, 148, ?

**Ans** ✗ 1. 50

✗ 2. 54

✓ 3. 52

✗ 4. 71

**Q.11** Select the set in which the number are related in the same way as the numbers of the given sets. (NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
(13, 14, 54)
(15, 18, 66)

**Ans** ✗ 1. (15, 17, 66)

✗ 2. (11, 13, 52)

✓ 3. (13, 19, 64)

✗ 4. (12, 34, 90)

**Q.12** Which of the following numbers will replace the question mark (?) in the given series?
239, 274, 309, 354, 399, 454, ?

**Ans** ✗ 1. 539

✗ 2. 474

✓ 3. 509

✗ 4. 499

---

**Q.13** In a certain code language, 'TRAUMA' is coded as '36' and 'STIL' is coded as '24'. How will 'OBEIDEINT' be coded in that language?

**Ans** ✗ 1. 44

✓ 2. 54

✗ 3. 72

✗ 4. 84

---

**Q.14** Select the correct mirror image of the given combination when the mirror is placed at 'MN' as shown below.
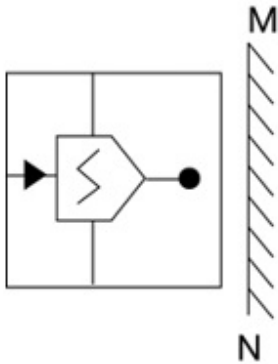


**Ans**

✗ 1. 

✓ 2. 

✗ 3. 

✗ 4. 

**Q.15** If '+' means '−', '−' means '×', '×' means '÷' and '÷' means '+', what will come in place of '?' in the following equation?
36 - 5 ÷ 240 × 6 + 17 = ?

**Ans**  ✗ 1. 237

✗ 2. 221

✗ 3. 218

✔ 4. 203

**Q.16** Three of the following letter-clusters are alike in some manner and one is different. Select the one that is different.

**Ans**  ✗ 1. SVXY

✗ 2. PSUV

✔ 3. GTHS

✗ 4. NQST

**Q.17** In a certain code language, 'FIRE' is coded as '7391' and 'AGED' is coded as '8247'. What is the code for 'E' in the given code language?

**Ans**  ✗ 1. 4

✗ 2. 3

✔ 3. 7

✗ 4. 2

**Q.18** Which of the following numbers will replace the question mark (?) in the given series?
25, 26, 28, 32, 40, ?

**Ans**  ✗ 1. 50

✗ 2. 58

✗ 3. 52

✔ 4. 56

**Q.19** Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the odd letter-cluster.

**Ans**  ✗ 1. TMHE

✗ 2. VOJG

✔ 3. WNDD

✗ 4. ZSNK

**Q.20** 'D @ G' means 'D is the father of G',
'D # G' means 'D is the daughter of G',
'D * G' means 'D is the mother of G', and
'D – G' means 'D is the husband of G'.
If A – Q * B @ R, how is A related to R?

**Ans**  ✗ 1. Father

✗ 2. Son

✗ 3. Husband

✔ 4. Father's father

**Q.21** Three statements are given followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:
Some elephants are fishes.
No fish is a tiger.
All deer are tigers.

Conclusions:
I. Some elephants are deer.
II. No elephant is a tiger.
III. No deer is a fish.

**Ans** ✔ 1. Only conclusion III follows.

✘ 2. Both conclusions I and III follow.

✘ 3. Both conclusions I and II follow.

✘ 4. Only conclusion II follows.

**Q.22** Select the number from among the given options that can replace the question mark (?) in the following series.
61, 95, 138, 197, 279, ?

**Ans** ✘ 1. 389

✘ 2. 395

✘ 3. 397

✔ 4. 391

**Q.23** If '+' means '−', '−' means '×', '×' means '÷', '÷' means '+', then what will come in place of the question mark (?) in the following equation?
61 ÷ 9 × 3 − 8 + 5 = ?

**Ans** ✔ 1. 80

✘ 2. 89

✘ 3. 75

✘ 4. 72

**Q.24** Given below are two statements and two conclusions. Take the statements to be true even if they are at variance with commonly known facts, and decide whether the conclusion(s) follow(s) the given statements.
Statements:
Some rats are mats.
All mats are ants.
Conclusions:
I. Some rats are ants.
II. Some ants are mats.

**Ans** ✔ 1. Both the conclusions follow

✘ 2. Only conclusion I follows

✘ 3. Only conclusion II follows

✘ 4. Neither conclusion I nor II follows

**Q.25** A cube is made by folding the given sheet. In the cube so formed, what would be the number on the opposite side of the number '1'?

| 5 | 4 |
|---|---|

| | 2 | 3 |

| | 6 |

| | 1 |
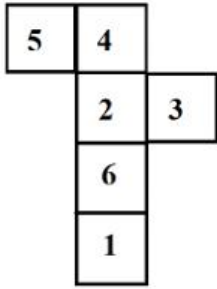
**Ans**
✗ 1. 4

✗ 2. 5

✗ 3. 3

✔ 4. 2

**Q.26** Seven people, A, B, C, D, E, F and G, are sitting in a straight row, facing north (not necessarily in the same order). Only 2 people sit to the right of D. G is an immediate neighbour of D. Only 3 people sit between A and G. Only 2 people sit between B and C. E is not an immediate neighbour of C. F sits to the immediate right of G.
How many people sit between E and D?

**Ans**
✗ 1. 2

✗ 2. 0

✔ 3. 1

✗ 4. 3

**Q.27** Select the figure that will come next (?) in the following series.
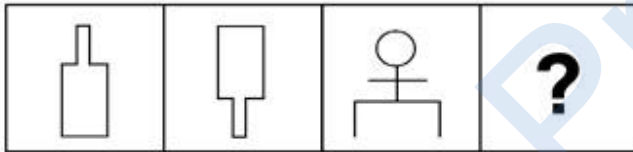


**Ans**

✗ 1. 

✔ 2. 

✗ 3. 

✗ 4. 

**Q.28** Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

Derive : Infer :: Urge : ?

**Ans**
❌ 1. Protest

❌ 2. Hinder

✅ 3. Exhort

❌ 4. Censure

---

**Q.29** Select the correct mirror image of the given figure when the mirror is placed at MN as shown below

M

B K $ 6 G H X |

N

**Ans**
❌ 1. ЯHϽ6$Ӿᗺ

✅ 2. XHϽ6$Ӿᗺ

❌ 3. ЯHϽ6$Ӿᗺ

❌ 4. XHϽ6$Ӿᗺ

---

**Q.30** In this question, three statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follows/follow from the statements.
**Statements:**
**I. All buildings are towers.**
**II. No tower is a shop.**
**III. Some shops are offices.**
**Conclusions:**
**I. Some offices are towers.**
**II. No building is a shop.**

**Ans**
❌ 1. Only conclusion I follows

✅ 2. Only conclusion II follows

❌ 3. Neither conclusion I nor II follows

❌ 4. Both conclusions I and II follow

---

**Q.31** 'A ? B' means 'A is the son of B'.
'A $ B' means 'A is the daughter of B'.
'A * B' means 'A is the brother of B'.
'A = B' means 'A is the father of B'.
If H $ Q * Y * N, then how is Y related to H?

**Ans**
❌ 1. Father's father

❌ 2. Brother

✅ 3. Father's brother

❌ 4. Father

**Q.32** Select the correct mirror image of the given figure when the mirror is placed at line MN as shown.
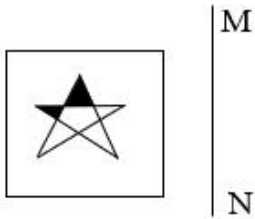


**Ans**

✗ 1. 

✔ 2. 

✗ 3. 

✗ 4. 

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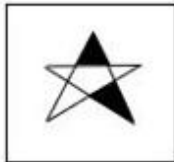
**Q.33** Select the option that represents the correct order of the given words as they would appear in an English dictionary?
1.Voice
2.Vocalist
3.Vivisection
4.Void
5.Vogue

**Ans**    ✗ 1. 5, 2, 3, 1, 4

✗ 2. 4, 2, 3, 1, 5

✔ 3. 3, 2, 5, 1, 4

✗ 4. 2, 3, 5, 1, 4

**Q.34** A paper is folded and cut as shown. How will it appear when unfolded?



Ans

✗ 1.



✓ 2.



✗ 3.



✗ 4.



---
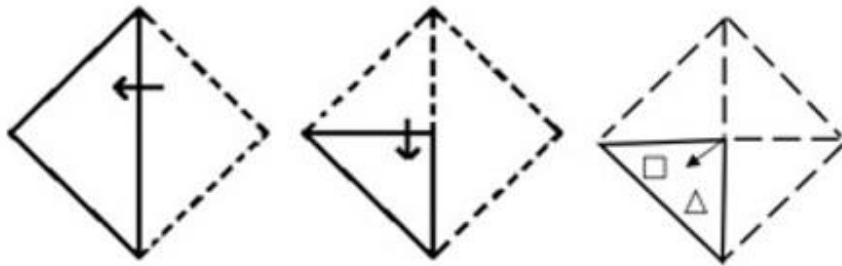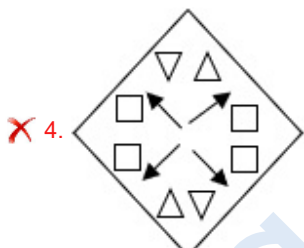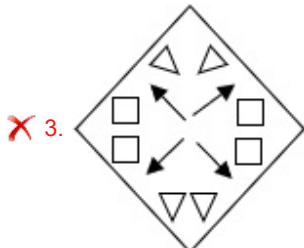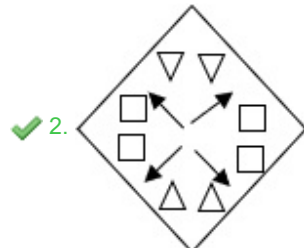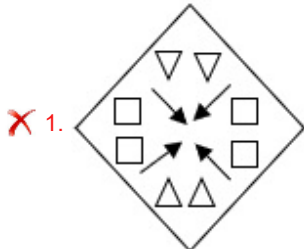
**Q.35** Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)

(329, 145, 184), (567, 221, 346)

Ans

✓ 1. (676, 225, 451)

✗ 2. (506, 302, 224)

✗ 3. (308, 205, 192)

✗ 4. (464, 264, 206)

**Q.36** Select the figure from among the given options that can replace the question mark (?) in the following series.
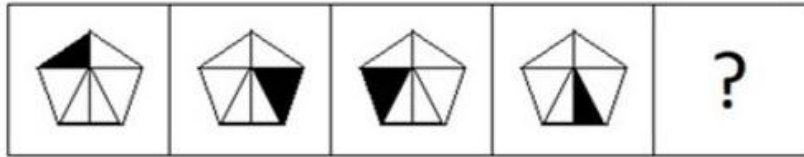


**Ans**

✗ 1. 

✗ 2. 
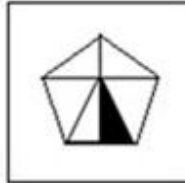
✗ 3. 
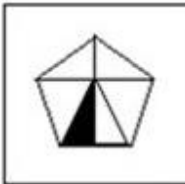
✔ 4. 

**Q.37** Select the option figure which is embedded in the given figure as its part (rotation is NOT allowed).
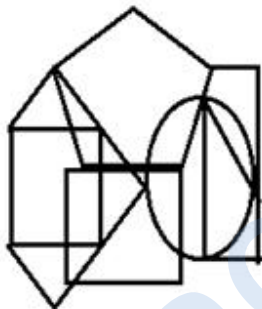


**Ans**

✗ 1. 

✗ 2. 

✗ 3. 

✔ 4. 

**Q.38** Which letter-cluster will replace the question mark (?) to complete the given series?
GOWB, MVEK, SCMT, ?, EQCL

**Ans**
✗ 1. YKCU

✗ 2. YJCU

✗ 3. YKUC

✓ 4. YJUC

**Q.39** If A denotes '+', B denotes '×', C denotes '−', and D denotes '÷', then what will come in place of '?' in the following equation?
145 A 27 D 3 B ? = 163

**Ans**
✓ 1. 2

✗ 2. 6

✗ 3. 1

✗ 4. 3

**Q.40** If '+' means '×', '×' means '−', '−' means '÷' and '÷' means '+', then what will come in place of the (?) in the following equation?
9 + 3 ÷ 2 × 135 − 15 = ?

**Ans**
✓ 1. 20

✗ 2. 22

✗ 3. 18.5

✗ 4. 25

**Q.41** Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.

1. Realistic
2. Readily
3. Reach
4. Really
5. Reactor
6. Realize

**Ans**
✗ 1. 3, 2, 6, 1, 5, 4

✓ 2. 3, 5, 2, 1, 6, 4

✗ 3. 3, 5, 1, 2, 6, 4

✗ 4. 3, 5, 6, 1, 2, 4

**Q.42** B is west of E. A is north-west of B. F is north-east of B. D is south-east of F, such that F is north-west of E and D is south-east of E as well. If C is south-west of E, what is the position of A with respect to E? (All positions are arranged in GRID pattern)

**Ans**
✗ 1. North-east

✗ 2. South-east

✓ 3. North-west

✗ 4. South-west

**Q.43** In a certain code language, 'LIFE' is coded as '9351' and 'NEAR' is coded as '4692'. What is the code for 'E' in the given code language?

**Ans**
✗ 1. 3

✗ 2. 1

✗ 3. 4

✓ 4. 9

**Q.44** Which two signs should be interchanged to make the given equation correct?

114 ÷ 85 + 5 × 4 – 33 = 149

**Ans**   ✗ 1. ÷ and –

✓ 2. ÷ and +

✗ 3. + and ×

✗ 4. – and +

---

**Q.45** If the given sheet is folded to form a cube, which of the following figures is NOT possible?



**Ans**

✓ 1. 

✗ 2. 

✗ 3. 

✗ 4. 

---
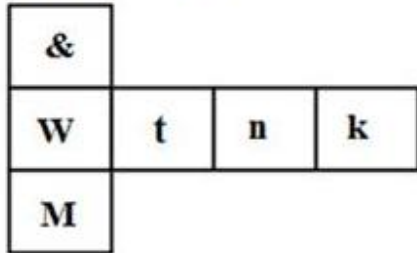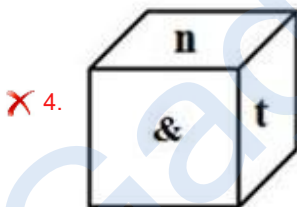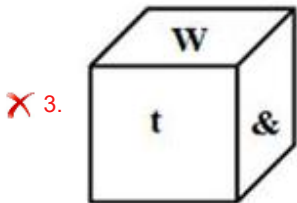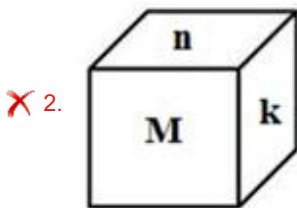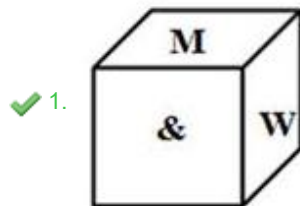
**Q.46** Select the option that represents the letters which, when sequentially placed from left to right in the blanks below, will complete the letter series.

P _ _ H _ _ C E _ Z P _ E H _

**Ans**   ✗ 1. Z C H P Z C E

✗ 2. H Z C Z P E C

✓ 3. C E Z P H C Z

✗ 4. E P Z C H E C

**Q.47** In a certain code language, 'good morning' is coded as 'mu du', 'early morning tea' is coded as 'du tu se', 'tea is early' is coded as 'se re tu'. What is the code for the word 'is'?

**Ans**
  ✗ 1. tu

  ✗ 2. du

  ✓ 3. re

  ✗ 4. mu

**Q.48** Which letter-cluster will replace the question mark (?) to complete the given series?
VQSN, ?, ROOL, PNMK, NMKJ

**Ans**
  ✓ 1. TPQM

  ✗ 2. PQMN

  ✗ 3. TQRN

  ✗ 4. PTMQ

**Q.49** Select the figure that will replace the question mark (?) in the following figure series.
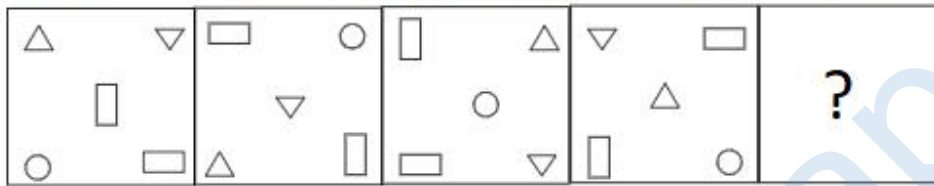


**Ans**

  ✗ 1. 

  ✗ 2. 

  ✓ 3. 

  ✗ 4. 

**Q.50** Select the set in which the numbers are related in the same way as are the numbers of the following set.

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)

(21, 5, 120)
(2, 7, 8)

**Ans**
  ✓ 1. (3,4,10)

  ✗ 2. (2,6,21)

  ✗ 3. (4,7,34)

  ✗ 4. (3,4,16)

**Q.1** Ravana Phadi cave and Durga Temple at Aihole portray the architectural style of which dynasty?

**Ans**
✗ 1. Vijaynagara

✓ 2. Chalukya

✗ 3. Hoysala

✗ 4. Pallava

**Q.2** Which east-flowing river basin covers the states of Jharkhand, Chhattisgarh and Orissa and has a Drainage area of 39,033 sq km?

**Ans**
✗ 1. Sarada

✗ 2. Baitarni

✓ 3. Brahmani

✗ 4. Nagavali

**Q.3** Thullal dance originated in which of the following states?

**Ans**
✓ 1. Kerala

✗ 2. Uttarakhand

✗ 3. Manipur

✗ 4. Gujrat

**Q.4** Who is the ex-officio Chairman of the Rajya Sabha?

**Ans**
✗ 1. Attorney General of India

✗ 2. Prime Minister

✗ 3. President

✓ 4. Vice President

**Q.5** The Beating Retreat ceremony is held at which of the following places?

**Ans**
✗ 1. Chandni Chowk

✗ 2. Connaught Place

✓ 3. Vijay Chowk

✗ 4. India Gate

**Q.6** In which year did Albert Einstein predict a new state of matter, the Bose-Einstein condensate (BEC), based on a quantum formulation by the Indian physicist Satyendra Nath Bose?

**Ans**
✗ 1. 1935

✗ 2. 1919

✓ 3. 1924

✗ 4. 1930

**Q.7** How many planets are terrestrial planets?

**Ans**
✗ 1. 6

✗ 2. 3

✗ 3. 5

✓ 4. 4

**Q.8** Which odourless, colourless, tasteless and chemically unreactive gas was invented by Daniel Rutherford in 1772 and was independently isolated at the same time by CW Scheele and H Cavendish?

**Ans**
- ✗ 1. Oxygen
- ✓ 2. Nitrogen
- ✗ 3. Argon
- ✗ 4. Fluorine

**Q.9** The Olympic Winter Games 2026 would be played in_____.

**Ans**
- ✗ 1. Los Angeles
- ✗ 2. Paris
- ✓ 3. Milano Cortina
- ✗ 4. Brisbane

**Q.10** Read the given statements and select the correct option.
i) The Governor is the real head of the State Government.
ii) The Chief Minister plays a key role in framing the laws and policies of the state government.
iii) Governor of a State is appointed by the President.

**Ans**
- ✗ 1. Only ii
- ✓ 2. Both ii and iii
- ✗ 3. Only i
- ✗ 4. Both i and ii

**Q.11** Recoveries of loans and advances, borrowings, are an example of _____.

**Ans**
- ✗ 1. non-tax receipts
- ✓ 2. capital receipts
- ✗ 3. revenue receipts
- ✗ 4. tax receipts

**Q.12** Soparrkar and the logo of his worldwide initiative 'Dance for a Cause' are being printed on an official postage stamp issued by the _____ government.

**Ans**
- ✗ 1. Nepal
- ✗ 2. Bangladesh
- ✗ 3. Sri Lanka
- ✓ 4. Bhutan

**Q.13** The Karewa formations are found in the _____.

**Ans**
- ✗ 1. North Eastern Hills
- ✓ 2. Kashmir Himalayas
- ✗ 3. Uttaranchal Himalayas
- ✗ 4. Terai Region

**Q.14** Who among the following applied European theatrical techniques to Indian Classical dance with folk and tribal dance?

**Ans**
- ✓ 1. Uday Shankar
- ✗ 2. Kelucharan Mohapatra
- ✗ 3. Guru Bipin Singh
- ✗ 4. Birju Maharaj

**Q.15** Who among the following was the first president of IOC?

**Ans**   ✅ 1. Demetrius Vikelas

   ❌ 2. Lord Killanin

   ❌ 3. Pierre, Baron de Coubertin

   ❌ 4. Avery Brundage

**Q.16** In 2015, the eminent danseuse and _____ exponent, Padma Subrahmanyam was selected for Kerala's prestigious choreography award 'Nishagandhi Puraskaram' instituted by the state tourism department.

**Ans**   ❌ 1. Kuchipudi

   ✅ 2. Bharatanatyam

   ❌ 3. Sattriya

   ❌ 4. Kathakali

**Q.17** In 1957, who redefined a model that predicted the shape of individual molecules based on the extent of electron-pair electrostatic repulsion?

**Ans**   ❌ 1. Marcet and Pauling

   ❌ 2. Heitler and London

   ❌ 3. Staudinger and Perey

   ✅ 4. Nyholm and Gillespie

**Q.18** What do you call the fluid matrix filling in the cell?

**Ans**   ❌ 1. Golgi bodies

   ❌ 2. Ribosome

   ✅ 3. Cytoplasm

   ❌ 4. Plasmid

**Q.19** Who among the following has written the biography of Buddha, Buddhacharita?

**Ans**   ✅ 1. Ashvaghosha

   ❌ 2. Nagarjuna

   ❌ 3. Vasumitra

   ❌ 4. Charaka

**Q.20** How many fundamental rights were provided originally by the Indian Constitution in 1950?

**Ans**   ✅ 1. Seven

   ❌ 2. Nine

   ❌ 3. Five

   ❌ 4. Six

**Q.21** The five-year plans in India laid down not only specific objectives to be attained in the five years of a plan, but also what was to be achieved over a period of 20 years. This long-term plan is called a _____.

**Ans**   ❌ 1. perpetual plan

   ❌ 2. two-decade plan

   ❌ 3. twenty-year plan

   ✅ 4. perspective plan

**Q.22** What do you call the drugs that bind to the receptor site and inhibit its natural function?

**Ans**

✗ 1. Agonist

✗ 2. Antidepressants

✔ 3. Antagonists

✗ 4. Depressants

**Q.23** How many fundamental rights were there at the time of adoption of the Indian Constitution?

**Ans**

✗ 1. Five

✗ 2. Eight

✗ 3. Six

✔ 4. Seven

**Q.24** Tansen, the music legend was a courtier in which of the following courts before coming to Akbar?

**Ans**

✔ 1. Rewa

✗ 2. Benaras

✗ 3. Gandhara

✗ 4. Maghad

**Q.25** _____ 2005 is referred to as the 'Right to Work' as it guaranteed 100 days of employment in a year by the Indian Government to people who are in need of and who are able to do work.

**Ans**

✔ 1. Mahatma Gandhi National Rural Employment Guarantee Act

✗ 2. Mahatma Gandhi Regional Employment Guarantee Act

✗ 3. Mahatma Gandhi Rural Employment Act

✗ 4. Mohan Gandhi Regional Guarantee Act

**Q.26** Who among the following was the Vice President of the Interim Government formed by Congress in 1946?

**Ans**

✗ 1. John Matthai

✗ 2. Vallabhbhai Patel

✔ 3. Jawaharlal Nehru

✗ 4. Baldev Singh

**Q.27** Which of the following statements is NOT true for Indian monsoons?

**Ans**

✗ 1. Monsoonal rainfall is the lifeline of Indian agriculture

✔ 2. Monsoonal rainfall is not affected by the relief features of the country

✗ 3. Himalayas play an important role in monsoonal rainfall

✗ 4. Monsoonal rainfall is affected by jet streams

**Q.28** Who among the following is the author of the book 'On Writing: A Memoir of the Craft'?

**Ans**

✗ 1. F Scott Fitzgerald

✗ 2. Clive Staples Lewis

✗ 3. Ernest Hemingway

✔ 4. Stephen King

**Q.29** During the British rule in India, which of the following Governor Generals devised the 'Doctrine of Lapse', a policy of annexation?

**Ans** ✅ 1. Lord Dalhousie

❌ 2. Warren Hastings

❌ 3. Lord Cornwallis

❌ 4. Lord Canning

**Q.30** Asad Ali Khan was known for playing which of the following Indian instruments?

**Ans** ❌ 1. Sitar

✅ 2. Rudra Veena

❌ 3. Violin

❌ 4. Tabla

**Q.31** What amount of 'Seed Capital' is provided as support to a Self-Help Group under the Pradhan Mantri Formalisation of Micro Food Processing Enterprises Scheme?

**Ans** ❌ 1. ₹30,000

❌ 2. ₹50,000

❌ 3. ₹20,000

✅ 4. ₹40,000

**Q.32** In which of the following states is Bonalu festival celebrated?

**Ans** ❌ 1. Uttar Pradesh

✅ 2. Telangana

❌ 3. Jharkhand

❌ 4. Gujarat

**Q.33** What is the name of the Comprehensive Household Survey providing labour force statistics in India, which was first conducted in 1955?

**Ans** ❌ 1. Area Frame Establishment Survey (AFES)

❌ 2. Periodic Labour Force Survey (PLFS)

❌ 3. Quarterly Employment Survey (QES)

✅ 4. Employment-Unemployment Survey (EUS)

**Q.34** Which winds blow across the Asian continent at latitudes north of the Himalayas roughly parallel to the Tibetan highlands?

**Ans** ❌ 1. Trade winds

✅ 2. Jet streams

❌ 3. Southwest winds

❌ 4. Northwest winds

**Q.35** In June _____, the Reserve Bank of India published a 'Consultative Document on Regulation of Microfinance'.

**Ans** ❌ 1. 2019

❌ 2. 2022

❌ 3. 2020

✅ 4. 2021

**Q.36** 'A Grain Of Sand In The Hourglass of Time' is an autobiography of which Indian politician?

Ans   ✗ 1. IK Gujral

     ✗ 2. Manmohan Singh

     ✓ 3. Arjun Singh

     ✗ 4. LK Advani

---

**Q.37** In which part of the Constitution are fundamental duties added?

Ans   ✗ 1. Part II-B

     ✗ 2. Part III-B

     ✗ 3. Part I-A

     ✓ 4. Part IV-A

---

**Q.38** Who among the following was the successor of Mughal emperor Shahjahan to the throne?

Ans   ✗ 1. Murad Bakhsh

     ✗ 2. Dara Shikoh

     ✓ 3. Aurangzeb

     ✗ 4. Shah Shuja

---

**Q.39** In which process is a solid substance volatilised by heating and the vapour is condensed back to the solid at a cold surface?

Ans   ✗ 1. Distillation

     ✗ 2. Filtration

     ✓ 3. Sublimation

     ✗ 4. Chromatography

---

**Q.40** In which of the following cases the Supreme Court, while laying out the 'basic structure' of the Constitution held that the democratic character of the polity was an essential component of the 'basic structure'?

Ans   ✗ 1. Romesh Thappar vs State of Madras

     ✗ 2. A K Gopalan vs State of Madras

     ✓ 3. Kesavananda Bharati vs State of Kerala

     ✗ 4. Sajjan Singh vs State of Rajasthan

---

**Q.41** The main function of centriole is:

Ans   ✗ 1. to maintain mineral composition in bacterial cell

     ✗ 2. to help plant cell for multiplication

     ✓ 3. to help cell division in animal cell

     ✗ 4. to maintain rigidity in plant cell

---

**Q.42** Which ports belong to the western coast of India?

Ans   ✓ 1. Kandla port, Mormugao port, Kochi port

     ✗ 2. Kandla port, Mormugao port, Chennai port

     ✗ 3. Kandla port, Mormugao port, Kolkata port

     ✗ 4. Kandla port, Haldia port, Kochi port

**Q.43** What is the dimension of the kabaddi play field for men?

**Ans** ✔ 1. 13 m × 10 m

✘ 2. 14 m × 10 m

✘ 3. 12.50 m × 10 m

✘ 4. 14 m × 8 m

**Q.44** Who among the following Bahmani sultans transferred his capital from Gulbarga to Bidar?

**Ans** ✔ 1. Ahmad Shah

✘ 2. Humayun

✘ 3. Mujahid Shah

✘ 4. Firuz Shah

**Q.45** Who among the following designed a campaign that came to be known as the 'Rowlatt Satyagraha'?

**Ans** ✔ 1. Mahatma Gandhi

✘ 2. Feroze Shah Mehta

✘ 3. Mahadev Govind Ranade

✘ 4. Bal Gangadhar Tilak

**Q.46** Which compound structure includes a saturated short-chain fatty acid with 4-carbon molecules, commonly found in esterified form in animal fats and plant oils?

**Ans** ✘ 1. Propionic acid

✔ 2. Butyric acid

✘ 3. Succinic acid

✘ 4. Lactic acid

**Q.47** In Which year did the Ministry of Health and Family Welfare of India launch the Weekly Iron and Folic Acid Supplementation (WIFS) program to meet the challenge of high prevalence and incidence of anaemia among adolescent girls and boys (56% girls and 30% boys)?

**Ans** ✘ 1. 2014

✘ 2. 2013

✘ 3. 2011

✔ 4. 2012

**Q.48** What was the target growth rate of the Indian economy in the second five-year plan?

**Ans** ✘ 1. 6.7%

✔ 2. 4.5%

✘ 3. 2.8%

✘ 4. 5.4%

**Q.49** What is the full form of RIDF?

**Ans** ✘ 1. Rural Infrastructure Development Forum

✔ 2. Rural Infrastructure Development Fund

✘ 3. Road Infrastructure Development Fund

✘ 4. Rural Industries Development Fund

**Q.50** Linthoi Chanambam is associated with which of the following sports events?

**Ans**
  ✗ 1. Cricket

  ✓ 2. Judo

  ✗ 3. Chess

  ✗ 4. Badminton

---

**Q.1** Anandi bought a smart watch from an electronic store for Rs.4,400. Since she had less money, she paid Rs.2,000 for down payment and the shopkeeper offered her an alternative to pay Rs.2,440 after 1 month. Find the rate of interest being charged at simple interest by the shopkeeper in this instalment option?

**Ans**
  ✗ 1. 15%

  ✓ 2. 20%

  ✗ 3. 10%

  ✗ 4. 22%

---

**Q.2** Study the given pie-chart and answer the question that follows.
The pie-chart shows the number of students (boys and girls) studying in standard 10 of various schools (X, Y, Z in the year 2022).

**Total Number of Students (Boys and Girls) = 3600**



Z 25%
X 45%
Y 30%
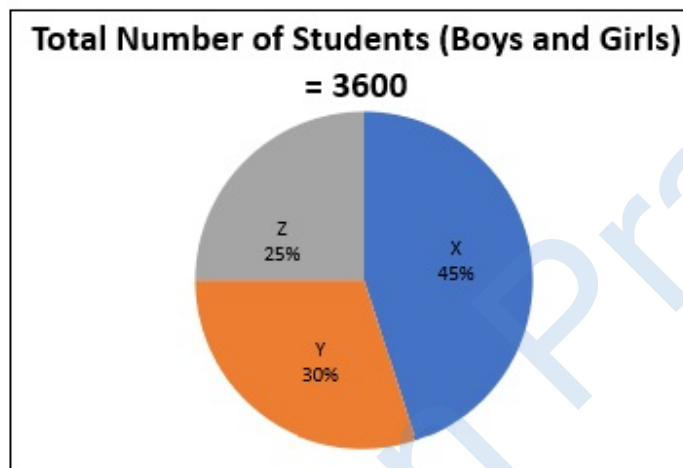
What is the difference between the total number of students (boys and girls) in school Y and Z together and the total number of students (boys and girls) in school X and Y together?

**Ans**
  ✓ 1. 720

  ✗ 2. 780

  ✗ 3. 820

  ✗ 4. 840

---

**Q.3** If k(tan 45° sin 60°) = cos 60 ° cot 30 ° , then the value of k is:

**Ans**
  ✓ 1. $1$

  ✗ 2. $\dfrac{1}{\sqrt{3}}$

  ✗ 3. $\sqrt{3}$

  ✗ 4. $2$

**Q.4** Find the mean proportional between 32 and 162.

**Ans** ✗ 1. 65

✗ 2. 97

✔ 3. 72

✗ 4. 99

---

**Q.5** The following table shows the mobile-addicted population of four different cities Hyderabad, Mumbai, Chennai, and Pune, and the ratio of males to females among them.

| City | Mobile-Addicted population | Male : Female |
|---|---|---|
| Hyderabad | 2,20,000 | 7 : 8 |
| Mumbai | 3,50,000 | 12 : 13 |
| Chennai | 2,00,000 | 11 : 9 |
| Pune | 1,50,000 | 9 : 11 |

Find the total number of addicted males in Chennai.

**Ans** ✗ 1. 1,20,000

✗ 2. 1,00,000

✗ 3. 80,000

✔ 4. 1,10,000

---

**Q.6** Find the value of $\dfrac{\cos 37°}{\sin 53°} - \cos 47° \operatorname{cosec} 43°$.

**Ans** ✗ 1. −1

✗ 2. 1

✗ 3. 2

✔ 4. 0

---

**Q.7** PQR is a triangle. The bisectors of the internal angle ∠Q and external angle ∠R intersect at S. If ∠QSR = 40°, then ∠P is:

**Ans** ✔ 1. 80°

✗ 2. 60°

✗ 3. 40°

✗ 4. 30°

---

**Q.8** Three boys, on an average, are 25 years old, and their age are in the ratio of 3 : 5 : 7. What is the age of youngest boy'?

**Ans** ✗ 1. 21 years

✗ 2. 12 years

✗ 3. 24 years

✔ 4. 15 years

---

**Q.9** After deducting a commission of 20%, a DVD set costs ₹9,080. Its marked price is:

**Ans** ✔ 1. ₹11,350

✗ 2. ₹10,100

✗ 3. ₹10,000

✗ 4. ₹11,200

**Q.10** Study the given table and answer the question that follows.
The data given in the table is for the month of December 2022.

| Company | Total number of employees | Number of female employees |
|---------|---------------------------|----------------------------|
| P | 4560 | 2210 |
| Q | 4258 | 1650 |
| R | 3052 | 1280 |
| S | 4350 | 1920 |

What is the difference between the number of male employees in company P and that in company R?

**Ans** ✗ 1. 605

✗ 2. 580

✔ 3. 578

✗ 4. 592

---

**Q.11** The product of two numbers is 20000. If their LCM is 800, then what is their HCF?

**Ans** ✗ 1. 20

✗ 2. 30

✔ 3. 25

✗ 4. 35

---

**Q.12** Study the given graph and answer the question that follows.

The given graph represents the percentage of books on different subjects that a person has in his library.



Percentage distribution of books on different subjects
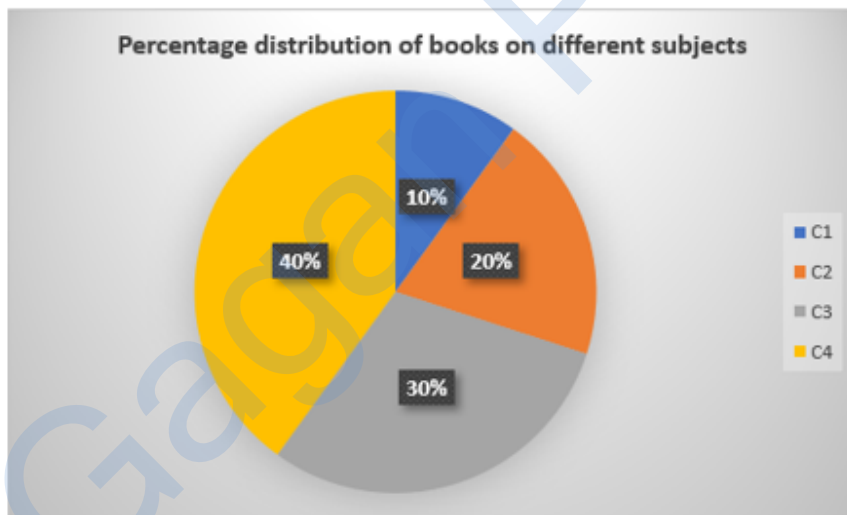
If the total number of books is 60, then what is the ratio of the number of books on subject C1 to the average number of books per subject?

**Ans** ✗ 1. 3 : 5

✔ 2. 2 : 5

✗ 3. 2 : 3

✗ 4. 3 : 7

**Q.13** In an election between two candidates, 80% of the voters cast their votes, out of which 5% votes were declared invalid. A candidate got 9500 votes which were 80% of the valid votes. Find the total number of voters enrolled in that election.

**Ans**
✗ 1. 14780

✔ 2. 15625

✗ 3. 16100

✗ 4. 15100

---

**Q.14** Simplify $\dfrac{1 - \frac{3}{7} \div \frac{9}{49} \times \frac{3}{14}}{1 + \frac{3}{5} \div \frac{1}{25} \times \frac{1}{30}}$ .

**Ans**
✗ 1. $\dfrac{1}{6}$

✗ 2. $\dfrac{1}{5}$

✔ 3. $\dfrac{1}{3}$

✗ 4. $\dfrac{1}{7}$

---

**Q.15** A sum of money was invested at 10% interest per year, compounded half-yearly, for 18 months. If the amount payable on maturity was ₹64,827, what was the sum invested?

**Ans**
✗ 1. ₹55,600

✗ 2. ₹56,500

✗ 3. ₹56,800

✔ 4. ₹56,000

---

**Q.16** The radius of a circle is 1.75 cm. What is the circumference of the circle?

$\left(\text{Take } \pi = \frac{22}{7}\right)$

**Ans**
✗ 1. 9.63 cm

✔ 2. 11 cm

✗ 3. 5.5 cm

✗ 4. 22 cm

---

**Q.17** An inlet pipe can fill an empty tank in 3.6 hours, while an outlet pipe can drain a completely-filled tank in 6.3 hours. If both the pipes are opened simultaneously when the tank is empty, in how many hours will the tank get completely filled?

**Ans**
✗ 1. 8.7

✗ 2. 8.1

✗ 3. 9.0

✔ 4. 8.4

**Q.18** If $a + \dfrac{1}{a} = 3$, then the value of $a^4 + \dfrac{1}{a^4}$ is:

**Ans**
  ✗ 1. 27
  ✗ 2. 81
  ✗ 3. 48
  ✓ 4. 47

**Q.19** Rakhi purchased a basket, a wallet and a belt. She got discounts of 5%, 8% and 10% on the basket, the wallet and the belt, respectively, on their respective marked prices of ₹80, ₹150 and ₹350. How much amount (in ₹) did she pay in total?

**Ans**
  ✗ 1. 51
  ✓ 2. 529
  ✗ 3. 580
  ✗ 4. 519

**Q.20** The speed of a boat in standing water is 6 km/h and the speed of the stream is 2.5 km/h. A man rows to a place at a distance of 59.5 kilometres and comes back to the starting point. The total time taken by him is:

**Ans**
  ✗ 1. 22 hours
  ✗ 2. 18 hours
  ✗ 3. 16 hours
  ✓ 4. 24 hours

**Q.21** The table below shows the number of students commuting to school by different modes of transport:

| Modes of transport | School bus | Bicycle | Walking | Other vehicles |
|---|---|---|---|---|
| No. of boys | 80 | 280 | 130 | 200 |
| No. of girls | 140 | 190 | 90 | 250 |

Which mode of transport is used by maximum number of students?

**Ans**
  ✗ 1. School bus
  ✗ 2. Other vehicles
  ✓ 3. Bicycle
  ✗ 4. Walking

**Q.22** A dealer sells his goods at 10% loss on the cost price but uses 25% less weight. What is his profit percentage?

**Ans**
  ✓ 1. 20%
  ✗ 2. 35%
  ✗ 3. 25%
  ✗ 4. 15%

**Q.23** Find the total surface area of a sphere whose volume is $\dfrac{256}{3}\pi$ cm$^3$.

**Ans**
  ✗ 1. $48\,\pi$ cm$^2$
  ✓ 2. $64\,\pi$ cm$^2$
  ✗ 3. $38\,\pi$ cm$^2$
  ✗ 4. $56\,\pi$ cm$^2$

**Q.24** The fraction equivalent to $\frac{1}{5}$% is:

Ans

✗ 1. $\frac{1}{125}$

✓ 2. $\frac{1}{500}$

✗ 3. $\frac{1}{200}$

✗ 4. $\frac{1}{40}$

---

**Q.25** In what proportion should a grocer mix wheat at ₹12 per kg and ₹25 per kg so as to make a mixture of worth ₹20 per kg?

Ans

✓ 1. $5 : 8$

✗ 2. $8 : 3$

✗ 3. $5 : 7$

✗ 4. $3 : 5$

---

**Q.26** In ΔABC, ∠B = 90° and AB : BC = 1 : 2. The value of cos A + tan C is:

Ans

✗ 1. $\frac{1+\sqrt{5}}{2\sqrt{5}}$

✗ 2. $\frac{2\sqrt{5}}{2+\sqrt{5}}$

✗ 3. $\frac{5+\sqrt{5}}{2\sqrt{5}}$

✓ 4. $\frac{2+\sqrt{5}}{2\sqrt{5}}$

---

**Q.27** If the radius of a hemispherical balloon increases from 4 cm to 7 cm as air is pumped into it, find the ratio of the surface area of the new balloon to its original.

Ans

✗ 1. $20 : 49$

✗ 2. $16 : 21$

✓ 3. $49 : 16$

✗ 4. $21 : 12$

---

**Q.28** The given table shows the number of students from 4 schools during 2022-2023.

| Schools | Total no. of students | Boys | Girls |
|---------|----------------------|------|-------|
| A | 2060 | 1339 | 721 |
| B | 1880 | 1034 | 846 |
| C | 2200 | 990 | 1210 |
| D | 1680 | 924 | 756 |

What is the percentage of girls in school B?

Ans

✗ 1. 60%

✗ 2. 55%

✓ 3. 45%

✗ 4. 65%

**Q.29** The square root of $\left(\frac{1}{4}\right) \times \left(\frac{1}{9}\right) \times \left(\frac{1}{25}\right) \times \left(\frac{1}{49}\right) \div \left(\frac{36}{121}\right)$ is:

**Ans**

✗ 1. $\frac{11}{12.60}$

✗ 2. $\frac{1}{1260}$

✓ 3. $\frac{11}{1260}$

✗ 4. $\frac{1260}{11}$

**Q.30** Simplify: $5\frac{1}{3} - \left\{4\frac{1}{3} + \left(3\frac{1}{3} \div \overline{2\frac{1}{3} - \frac{1}{3}}\right)\right\}$

**Ans**

✓ 1. $-\frac{2}{3}$

✗ 2. $-\frac{1}{3}$

✗ 3. $\frac{2}{3}$

✗ 4. $\frac{1}{3}$

**Q.31** The sales of batteries (in lakhs) manufactured by a company over the years are shown in the given table.

| YEAR | TYPES OF BATTERIES | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| | 4AH | 7AH | 32AH | 35AH | 55AH | Total |
| 1992 | 75 | 144 | 114 | 102 | 108 | 543 |
| 1993 | 90 | 126 | 102 | 84 | 126 | 528 |
| 1994 | 96 | 114 | 75 | 105 | 135 | 525 |
| 1995 | 105 | 90 | 150 | 90 | 75 | 510 |
| 1996 | 90 | 75 | 135 | 75 | 90 | 465 |
| 1997 | 105 | 60 | 165 | 45 | 120 | 495 |
| 1998 | 115 | 85 | 160 | 100 | 145 | 605 |

Which type of battery had the highest total sales over the last seven years?

**Ans**

✗ 1. 4 AH

✗ 2. 55 AH

✓ 3. 32 AH

✗ 4. 35 AH

**Q.32** A and B undertake a project worth ₹36,000. A alone can do the work in 25 days. They worked together for 5 days. For the next five days, B worked alone. After that, A substituted B and completed the remaining work in 5 days. The share of A in the earnings is:

Ans

✗ 1. ₹21,600

✓ 2. ₹14,400

✗ 3. ₹14,600

✗ 4. ₹21,400

**Q.33** The value of $1\frac{2}{5} - \left[ 3\frac{3}{4} \div \left\{ 1\frac{1}{4} \div \frac{1}{2} \left( 1\frac{1}{2} \times 3\frac{1}{3} \div 1\frac{1}{3} \right) \right\} \right]$ is:

Ans

✓ 1. 1

✗ 2. 3

✗ 3. 2

✗ 4. 0

**Q.34** Let the HCF of m and n be 'a' and let n = ab, LCM of m and n is given by:

Ans

✗ 1. ab

✗ 2. am

✓ 3. bm

✗ 4. mn

**Q.35** When A alone does a piece of work, he takes 25 days more than the time taken by A and B to do the work together. On the other hand, B alone takes 16 days more than the time taken by A and B to do the work together. How many days will A and B, working together, take to do the work?

Ans

✗ 1. 22

✓ 2. 20

✗ 3. 24

✗ 4. 23

**Q.36** Avi sold a house to Bhargav at a gain of 10% and Bhargav sold it to Chetan at a gain of 20%. If Chetan paid ₹2,64,00,000 for it, then at what price must Avi have purchased it?

Ans

✗ 1. ₹2,50,00,000

✗ 2. ₹1,75,00,000

✗ 3. ₹2,30,00,000

✓ 4. ₹2,00,00,000

**Q.37** Two numbers are in the ratio 12:7. If their HCF is 25, find the numbers.

Ans

✗ 1. 300, 50

✗ 2. 225, 135

✓ 3. 300, 175

✗ 4. 175, 120

**Q.38** Let C be a circle with centre O and radius 5 cm. Let PQ be a tangent to the circle and A be the point of tangency. Let B be a point on PQ such that the length of AB is 12 cm. If the line joining O and B intersects the circle at R, find the length of BR (in cm).

**Ans**
✗ 1. 13
✗ 2. 6
✔ 3. 8
✗ 4. 2

**Q.39** If $x^4 + y^4 = x^2y^2$, then the value of $x^6 + y^6$ is:

**Ans**
✗ 1. 1
✗ 2. 3
✗ 3. 2
✔ 4. 0

**Q.40** A company is manufacturing boxes of three types – plastic, wood and glass. The ratio of the numbers of plastic, wood and glass boxes is 2 : 3 : 5. The difference between the numbers of wood and glass boxes is 144. If the number of plastic boxes is increased by 25%, then what will be the number of plastic boxes now?

**Ans**
✗ 1. 144
✗ 2. 216
✗ 3. 360
✔ 4. 180

**Q.41** An inspector is 288 metres behind a thief. The inspector runs 42 metres and the thief runs 30 metres in a minute. In how much time will the inspector catch the thief?

**Ans**
✗ 1. 20 minutes
✔ 2. 24 minutes
✗ 3. 19 minutes
✗ 4. 21 minutes

**Q.42** If sin A+ $\sin^2$ A = 1 , then the value of $\cos^4$ A + $\cos^6$ A is:

**Ans**
✗ 1. 1
✗ 2. cos A
✔ 3. sin A
✗ 4. 0

**Q.43** The total surface area of a square-based right pyramid is 1536 m$^2$, of which 37.5% is the area of the base of the pyramid. What is the volume (in m$^3$) of this pyramid?

**Ans**
✗ 1. 3108
✗ 2. 3048
✔ 3. 3072
✗ 4. 3144

**Q.44** The radius of the base of a right circular cone is 5 cm. Its slant height is 13 cm. What is its volume (in cm$^3$, rounded off to 1 decimal place)? (Take $\pi = \frac{22}{7}$)

**Ans** ✓ 1. 314.3

✗ 2. 323.4

✗ 3. 328.6

✗ 4. 340.5

**Q.45** The volume of a sphere is given by 130977 cm$^3$. Its surface area (in cm$^2$) is:

**Ans** ✗ 1. 16847

✓ 2. 12474

✗ 3. 17424

✗ 4. 14274

**Q.46** E, F, G, and H are four points lying on the circumference of a circle to make a cyclic quadrilateral. If ∠FGH = 57°, then what will be the measure of the ∠HEF?

**Ans** ✗ 1. 33°

✗ 2. 143°

✓ 3. 123°

✗ 4. 93°

**Q.47** Study the given table and answer the question that follows.
The table shows the number of students studying in 6 different classes of 6 different schools.

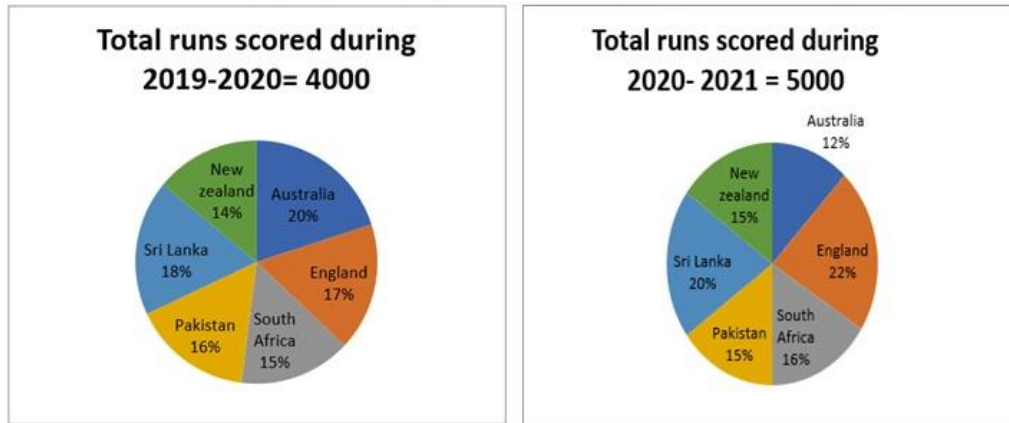| Schools | V | VI | VII | VIII | IX | X |
|---------|-----|-----|-----|------|-----|-----|
| P | 152 | 160 | 145 | 156 | 147 | 144 |
| Q | 148 | 166 | 150 | 155 | 157 | 143 |
| R | 161 | 152 | 140 | 145 | 143 | 165 |
| S | 159 | 142 | 149 | 140 | 142 | 168 |
| T | 147 | 144 | 158 | 163 | 154 | 150 |
| U | 150 | 160 | 162 | 160 | 160 | 140 |
| Total | 917 | 924 | 904 | 919 | 903 | 910 |

Which class has the maximum number of students from all schools together?

**Ans** ✗ 1. V

✓ 2. VI

✗ 3. VII

✗ 4. X

**Q.48** A shopkeeper has a sale of ₹5,445, ₹5,937, ₹5,865 and ₹6,562 for 4 consecutive days. If he gets an average sale of ₹6,050 for 5 days, then his sale on the fifth day is:

**Ans** ✗ 1. ₹6,131

✓ 2. ₹6,441

✗ 3. ₹6,231

✗ 4. ₹6,341

**Q.49** The pie chart 1 given below shows the runs scored by a player against 6 different countries during 2019-2020. Pie chart 2 shows the runs scored by the same player against the same 6 countries during 2020-2021.

**Total runs scored during 2019-2020= 4000**

New zealand 14%
Australia 20%
Sri Lanka 18%
England 17%
Pakistan 16%
South Africa 15%

**Total runs scored during 2020- 2021 = 5000**

Australia 12%
New zealand 15%
England 22%
Sri Lanka 20%
Pakistan 15%
South Africa 16%

Find the difference between the total runs scored against New Zealand and Pakistan during 2019-2020 and the total runs scored against Sri Lanka and Pakistan during 2020-2021.

**Ans**
✗ 1. 650
✗ 2. 600
✔ 3. 550
✗ 4. 500

---

**Q.50** A boat covers a distance of 72 km downstream in 6 hours, while it takes 12 hours to cover the same distance upstream. What is the speed of the boat in still water?

**Ans**
✗ 1. 10 km/h
✔ 2. 9 km/h
✗ 3. 6 km/h
✗ 4. 8 km/h

---

**Q.1** Four words have been underlined in the given sentence of which one word has a spelling error. Identify the incorrectly spelt word.
The tiger <u>thrshed</u> (A) against his <u>chains</u> (B) in the cage at the <u>circus</u> (C) but nobody paid him any <u>heed</u> (D).

**Ans**
✗ 1. heed
✔ 2. thrshed
✗ 3. chains
✗ 4. circus

---

**Q.2** Select the most appropriate idiom that can substitute the underlined segment in the given sentence.
He got a <u>burst of energy</u> and started digging again.

**Ans**
✗ 1. took bull by the horns
✗ 2. a fancy of someone
✗ 3. heart on the sleeve
✔ 4. second wind

---

**Q.3** Select the correct spelling of the incorrectly spelt word.

Diplomats believe that buraucratic delays are inevitable.

**Ans**
✗ 1. beleave
✗ 2. inivitable
✔ 3. bureaucratic
✗ 4. burocratic

**Q.4** The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.
Neem tastes / a little bitterly, / but is very useful.

**Ans** ✅ 1. a little bitterly

❌ 2. Neem tastes

❌ 3. but is very useful

❌ 4. No error

**Q.5** Select the option that will improve the underlined part of the given sentence.
The village Seoni is located 113 km <u>away from the capital city of MP, Bhopal</u>.

**Ans** ❌ 1. adjacent from city capital of MP, Bhopal

❌ 2. proximate from capital of MP, Bhopal

❌ 3. near from the city capital of MP, Bhopal

✅ 4. far from the capital city of MP, Bhopal

**Q.6** Select the most appropriate ANTONYM of the given word.
Credit

**Ans** ❌ 1. Install

❌ 2. Impute

✅ 3. Debit

❌ 4. Litigate

**Q.7** Select the most appropriate meaning of the underlined idiom that can be substituted in the following sentence.

Right now, <u>my hands are full</u>.

**Ans** ❌ 1. My hands are swollen

❌ 2. I'm very tired

✅ 3. I'm very busy

❌ 4. My hands are filled up

**Q.8** Parts of the following sentence have been given as options. Select the option that contains an error.
Rani was extreme upset with her results this year.

**Ans** ❌ 1. Rani was

❌ 2. this year

❌ 3. with her results

✅ 4. extreme upset

**Q.9** Select the option that can be used as a one-word substitute for the given group of words.

A place where coins are made

**Ans** ✅ 1. Mint

❌ 2. Post Office

❌ 3. Grove

❌ 4. Trough

**Q.10** Select the most appropriate one-word substitution of the given group of words.

A list of source materials that are used or consulted in the preparation of a work or that are referred to in the text.

**Ans** ✅ 1. Bibliography

❌ 2. Bibliomemoir

❌ 3. Bibliotheca

❌ 4. Bibliophile

**Q.11** The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

The postman / delivers the letters / through hand, / door to door.

Ans    ✗ 1. delivers the letters

     ✗ 2. The postman

     ✔ 3. through hand

     ✗ 4. door to door

**Q.12** Select the most appropriate meaning of the given idiom.
Boil the ocean

Ans    ✔ 1. Try to do something impossible

     ✗ 2. To make someone very angry

     ✗ 3. Something which gets hot gradually

     ✗ 4. Something very big

**Q.13** Select the most appropriate idiom to fill in the blank.

The company had some initial problems, but now it is _____.

Ans    ✗ 1. flying like a rock

     ✗ 2. flying a kite

     ✗ 3. flying the nest

     ✔ 4. flying high

**Q.14** Select the most appropriate ANTONYM of the word 'hinderance' in the given sentence and choose the correct option.

The refreshing breeze blew through the open window, bringing relief from the summer heat.

Ans    ✗ 1. Refreshing

     ✗ 2. Bringing

     ✗ 3. Blew

     ✔ 4. Relief

**Q.15** Select the most appropriate option that can substitute the underlined word in the given sentence.
The new professor is liked by his students for his amiable approach.

Ans    ✗ 1. academic

     ✗ 2. strict

     ✔ 3. friendly

     ✗ 4. simple

**Q.16** Select the option that can be used as a one-word substitute for the given group of words.

Something of monstrous size or power

Ans    ✗ 1. Heavyweight

     ✗ 2. Bulk

     ✗ 3. Amazon

     ✔ 4. Behemoth

**Q.17** Select the most appropriate synonym of the given word.

**Spontaneous**

Ans  ✗ 1. Acquisitive

✗ 2. Attractive

✓ 3. Instinctive

✗ 4. Exhaustive

**Q.18** Select the option that can be used as a one-word substitute for the given group of words.

**An ability to do several things at the same time.**

Ans  ✗ 1. Unitasking

✗ 2. Indictment

✗ 3. Blasphemy

✓ 4. Multitasking

**Q.19** You are preparing a speech for the upcoming function. Select a synonym for the highlighted word to make it better. The education system must evolve to keep pace with the rapid changes in the job market.

Ans  ✗ 1. Censor

✓ 2. Emanate

✗ 3. Demolish

✗ 4. Conceal

**Q.20** Select the most appropriate ANTONYM of the given word.
**Vague**

Ans  ✗ 1. Dwarf

✗ 2. Regal

✓ 3. Definite

✗ 4. Elegant

**Q.21** Select the most appropriate meaning of the underlined idiom.

**We've sent a very strong protest letter. That should make them sit up and <u>take notice</u>.**

Ans  ✗ 1. Observe

✗ 2. Attend

✗ 3. Follow

✓ 4. Consider

**Q.22** Select the most appropriate ANTONYM of the given word.

**Demolish**

Ans  ✗ 1. Inferior

✗ 2. Annihilate

✓ 3. Fabricate

✗ 4. Unmethodical

**Q.23** Select the INCORRECTLY spelt word.

Ans  ✗ 1. Cumbersome

✗ 2. Caricature

✓ 3. Cumolative

✗ 4. Click

**Q.24** Select the most appropriate option that can substitute the underlined segment in the given sentence.

A gust of wind came abruptly and our sand castle <u>toppled</u>.

Ans ✗ 1. blew out

✓ 2. tumbled down

✗ 3. turned up

✗ 4. ran after

**Q.25** Select the most appropriate synonym of the given word.

Behold

Ans ✗ 1. Burden

✗ 2. Fortunate

✗ 3. Predict

✓ 4. Look

**Q.26** Select the sentence that has a spelling error.

A- Keeping cities clean and free of germs is particularly essential for keeping their residents healthy.
B- Our health depends not just on our nutrition and personal hygeine but also on how we clean our cities and surroundings.
C- The spread of various diseases is intricately linked to the deteriorating state of public health condition.
D- The good news is that waste management, to keep cities clean, is now getting attention through the Swachh Bharat Mission.

Ans ✗ 1. The spread of various diseases is intricately linked to the deteriorating state of public health condition.

✓ 2. Our health depends not just on our nutrition and personal hygeine but also on how we clean our cities and surroundings.

✗ 3. Keeping cities clean and free of germs is particularly essential for keeping their residents healthy.

✗ 4. The good news is that waste management, to keep cities clean, is now getting attention through the Swachh Bharat Mission.

**Q.27** Select the most appropriate meaning of the given idiom.
Burn one's bridges

Ans ✓ 1. Impossible to return to an earlier state

✗ 2. Having an overnight success

✗ 3. Working very hard

✗ 4. Attack on one's enemy

**Q.28** Select the most appropriate ANTONYM of the given word.

Defunct

Ans ✗ 1. Convoluted

✗ 2. Redundant

✓ 3. Extant

✗ 4. Stoicism

**Q.29** Select the option that can be used as a one-word substitute for the given group of words.

Spoken or done without any previous thought or preparation

Ans ✗ 1. Inaugural

✓ 2. Extempore

✗ 3. Initiative

✗ 4. Maiden

**Q.30** Select the most appropriate ANTONYM of the given word.
Brave

**Ans** ✔ 1. Cowardly

✘ 2. Cordial

✘ 3. Courageous

✘ 4. Elegant

**Q.31** Select the most appropriate idiomatic expression to substitute for the underlined segment in the given sentence.

I had <u>to work late in the night</u> for nearly three months to write my first book.

**Ans** ✘ 1. to take a back seat

✘ 2. to blow a fuse

✘ 3. to look through coloured glasses

✔ 4. to burn the midnight oil

**Q.32** Select the most appropriate meaning of the underlined idiom.
You must <u>lie in the bed you have made</u>.

**Ans** ✘ 1. Sleep on the bed you made yourself

✘ 2. Sleep in your own bed

✘ 3. Be contended always

✔ 4. Face the unpleasant consequences of your own acts

**Q.33** Some words in the following sentence have been underlined and given as options. Select the option that contains a spelling error.
The <u>rolling</u> waves on the <u>beach</u> were so <u>trainquil</u> and <u>soothing</u>.

**Ans** ✔ 1. trainquil

✘ 2. beach

✘ 3. rolling

✘ 4. soothing

**Q.34** Select the most appropriate meaning of the given idiom.
Open your heart

**Ans** ✘ 1. Immediately think of something

✘ 2. Feel relieved because the stress is removed

✘ 3. Could do something very easily

✔ 4. Share your deepest feelings

**Q.35** Select the most appropriate idiomatic expression to fill in the blank.

Our Director took a meeting and asked us to express our views on _____ of the new HR policy.

**Ans** ✔ 1. the pros and cons

✘ 2. the ups and downs

✘ 3. the bandwagon

✘ 4. the hook

**Q.36** Parts of the following sentence have been given as options. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

Luckily, I managed to get a room in the college hostel, and I move in there.

**Ans** ✘ 1. in the college hostel

✘ 2. No error

✔ 3. and I move in there

✘ 4. Luckily, I managed to get a room

---

**Q.37** Select the option that can be used as a one-word substitute for the given group of words.
Someone who pretends to have certain moral standards while secretively that person practices those very moral lapses.

**Ans** ✘ 1. Actor

✔ 2. Hypocrite

✘ 3. Sinner

✘ 4. Spy

---

**Q.38** Select the option that can be used as a one-word substitute for the given group of words.

The compulsion to tell lies

**Ans** ✔ 1. Mythomania

✘ 2. Nymphomania

✘ 3. Megalomania

✘ 4. Pyromania

---

**Q.39** The following sentence has been split into four segments. Identify the segment that contains a grammatical error.
"You look so young! / When did you completed your graduation?" / asked Rekha / to her neighbour.

**Ans** ✘ 1. to her neighbour

✘ 2. You look so young!

✔ 3. When did you completed your graduation?

✘ 4. asked Rekha

---

**Q.40** Select the option that can be used as a one-word substitute for the given group of words.

A person who does not eat any animal product

**Ans** ✘ 1. Vegetarian

✔ 2. Vegan

✘ 3. Non-vegetarian

✘ 4. Veggie

---

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
It is said that everyone lives (1)_____ selling something. What you can (2)_____ from this statement is that teachers live by selling knowledge, philosophers live by selling wisdom and priests earn their living by selling spiritual comfort. Though it may be possible to measure the value of material goods in terms of money, it is extremely difficult to (3)_____ the true value of the services which people perform for us. There are times when we would (4)_____ give everything we possess to save our lives, yet we might grudge paying a surgeon a high fee for offering us precisely the same service. The (5)_____ of society are such that skills have to be paid for in the same way that goods are paid for at a shop.

**SubQuestion No : 41**

**Q.41** Select the most appropriate option to fill in blank number 1.

**Ans** ✔ 1. by

✘ 2. over

✘ 3. of

✘ 4. into

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

It is said that everyone lives (1)_____ selling something. What you can (2)_____ from this statement is that teachers live by selling knowledge, philosophers live by selling wisdom and priests earn their living by selling spiritual comfort. Though it may be possible to measure the value of material goods in terms of money, it is extremely difficult to (3)_____ the true value of the services which people perform for us. There are times when we would (4)_____ give everything we possess to save our lives, yet we might grudge paying a surgeon a high fee for offering us precisely the same service. The (5)_____ of society are such that skills have to be paid for in the same way that goods are paid for at a shop.

**SubQuestion No : 42**

**Q.42** **Select the most appropriate option to fill in blank number 2.**

**Ans** ✗ 1. revive

✗ 2. separate

✗ 3. choose

✓ 4. derive

---

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

It is said that everyone lives (1)_____ selling something. What you can (2)_____ from this statement is that teachers live by selling knowledge, philosophers live by selling wisdom and priests earn their living by selling spiritual comfort. Though it may be possible to measure the value of material goods in terms of money, it is extremely difficult to (3)_____ the true value of the services which people perform for us. There are times when we would (4)_____ give everything we possess to save our lives, yet we might grudge paying a surgeon a high fee for offering us precisely the same service. The (5)_____ of society are such that skills have to be paid for in the same way that goods are paid for at a shop.

**SubQuestion No : 43**

**Q.43** **Select the most appropriate option to fill in blank number 3.**

**Ans** ✗ 1. conceal

✗ 2. extort

✗ 3. mock

✓ 4. estimate

---

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

It is said that everyone lives (1)_____ selling something. What you can (2)_____ from this statement is that teachers live by selling knowledge, philosophers live by selling wisdom and priests earn their living by selling spiritual comfort. Though it may be possible to measure the value of material goods in terms of money, it is extremely difficult to (3)_____ the true value of the services which people perform for us. There are times when we would (4)_____ give everything we possess to save our lives, yet we might grudge paying a surgeon a high fee for offering us precisely the same service. The (5)_____ of society are such that skills have to be paid for in the same way that goods are paid for at a shop.

**SubQuestion No : 44**

**Q.44** **Select the most appropriate option to fill in blank number 4.**

**Ans** ✗ 1. thoughtfully

✗ 2. perfectly

✗ 3. thoroughly

✓ 4. willingly

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

It is said that everyone lives (1)_____ selling something. What you can (2)_____ from this statement is that teachers live by selling knowledge, philosophers live by selling wisdom and priests earn their living by selling spiritual comfort. Though it may be possible to measure the value of material goods in terms of money, it is extremely difficult to (3)_____ the true value of the services which people perform for us. There are times when we would (4)_____ give everything we possess to save our lives, yet we might grudge paying a surgeon a high fee for offering us precisely the same service. The (5)_____ of society are such that skills have to be paid for in the same way that goods are paid for at a shop.

**SubQuestion No : 45**

**Q.45  Select the most appropriate option to fill in blank number 5.**

Ans    ✔ 1. conditions

       ✘ 2. interferences

       ✘ 3. obstacles

       ✘ 4. connections

**Comprehension:**

Read the given passage carefully and answer the questions that follow.

As a society, we have come a long way in terms of progress and development. We have eradicated diseases, explored space, and created technological wonders that were once thought impossible. Yet, there is still one issue that continues to plague us: stupidity. Yes, stupidity. The thing that seems to be contagious and has been spreading faster than the common cold. It's everywhere you look - on social media, in politics, in the workplace. You can't escape it.

It's as if we've all collectively decided that intelligence and common sense are no longer important. Why bother using your brain when you can just rely on your gut feelings and conspiracy theories?

Take politics, for example. It used to be that politicians were expected to be knowledgeable and well-informed about the issues they were dealing with. Now, it seems that all you need is a catchy slogan and some empty promises to win an election.

And don't even get me started on social media. It's a breeding ground for stupidity. People will believe anything they read as long as it confirms their preconceived biases. And don't even think about trying to present them with actual facts and evidence. That's just a waste of time.

But it's not just individuals who are to blame for this epidemic of stupidity. Our education system is failing us as well. We're teaching our kids how to pass tests instead of how to think critically and solve problems. It's no wonder we have a generation of adults who can't even find their way around a basic math problem.

Of course, there are some who would argue that stupidity is just a different way of thinking. That it's a valid perspective that deserves to be respected. To those people, I say this: if you want to be stupid, go ahead. Just don't expect the rest of us to respect your opinions when they're based on nothing but ignorance and misinformation.

It's time for us to take a stand against stupidity. We need to start valuing intelligence and critical thinking again. We need to hold our leaders accountable for their actions and demand that they be knowledgeable and well-informed. We need to teach our children how to think, not just how to memorise.

It won't be easy, but it's a fight worth fighting. Because if we don't, we'll be stuck in a world where stupidity reigns supreme, and there's no telling what kind of damage that could do. So let's all do our part and start using our brains again. It's time to put an end to the epidemic of stupidity once and for all.

**SubQuestion No : 46**

**Q.46  According to the author of the passage, who among the following is NOT responsible for the spread of stupidity?**

Ans    ✘ 1. Individuals

       ✔ 2. Children

       ✘ 3. Education system

       ✘ 4. Politicians

**Comprehension:**

Read the given passage carefully and answer the questions that follow.

As a society, we have come a long way in terms of progress and development. We have eradicated diseases, explored space, and created technological wonders that were once thought impossible. Yet, there is still one issue that continues to plague us: stupidity. Yes, stupidity. The thing that seems to be contagious and has been spreading faster than the common cold. It's everywhere you look - on social media, in politics, in the workplace. You can't escape it.

It's as if we've all collectively decided that intelligence and common sense are no longer important. Why bother using your brain when you can just rely on your gut feelings and conspiracy theories?

Take politics, for example. It used to be that politicians were expected to be knowledgeable and well-informed about the issues they were dealing with. Now, it seems that all you need is a catchy slogan and some empty promises to win an election.

And don't even get me started on social media. It's a breeding ground for stupidity. People will believe anything they read as long as it confirms their preconceived biases. And don't even think about trying to present them with actual facts and evidence. That's just a waste of time.

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It won't be easy, but it's a fight worth fighting. Because if we don't, we'll be stuck in a world where stupidity reigns supreme, and there's no telling what kind of damage that could do. So let's all do our part and start using our brains again. It's time to put an end to the epidemic of stupidity once and for all.

**SubQuestion No : 47**

**Q.47  What could be a suitable title for the passage?**

Ans      ✗ 1. The Joy of Living in a World of Ignorance

         ✓ 2. The Importance of Critical Thinking

         ✗ 3. The Evils of Social Media

         ✗ 4. The Benefits of Stupidity

**SubQuestion No : 48**

**Q.48  What is the tone of the passage?**

Ans      ✗ 1. Serious

         ✗ 2. Joyful

         ✗ 3. Melancholic

         ✓ 4. Sarcastic

**Comprehension:**

Read the given passage carefully and answer the questions that follow.

As a society, we have come a long way in terms of progress and development. We have eradicated diseases, explored space, and created technological wonders that were once thought impossible. Yet, there is still one issue that continues to plague us: stupidity. Yes, stupidity. The thing that seems to be contagious and has been spreading faster than the common cold. It's everywhere you look - on social media, in politics, in the workplace. You can't escape it.

It's as if we've all collectively decided that intelligence and common sense are no longer important. Why bother using your brain when you can just rely on your gut feelings and conspiracy theories?

Take politics, for example. It used to be that politicians were expected to be knowledgeable and well-informed about the issues they were dealing with. Now, it seems that all you need is a catchy slogan and some empty promises to win an election.

And don't even get me started on social media. It's a breeding ground for stupidity. People will believe anything they read as long as it confirms their preconceived biases. And don't even think about trying to present them with actual facts and evidence. That's just a waste of time.

But it's not just individuals who are to blame for this epidemic of stupidity. Our education system is failing us as well. We're teaching our kids how to pass tests instead of how to think critically and solve problems. It's no wonder we have a generation of adults who can't even find their way around a basic math problem.

Of course, there are some who would argue that stupidity is just a different way of thinking. That it's a valid perspective that deserves to be respected. To those people, I say this: if you want to be stupid, go ahead. Just don't expect the rest of us to respect your opinions when they're based on nothing but ignorance and misinformation.

It's time for us to take a stand against stupidity. We need to start valuing intelligence and critical thinking again. We need to hold our leaders accountable for their actions and demand that they be knowledgeable and well-informed. We need to teach our children how to think, not just how to memorise.

It won't be easy, but it's a fight worth fighting. Because if we don't, we'll be stuck in a world where stupidity reigns supreme, and there's no telling what kind of damage that could do. So let's all do our part and start using our brains again. It's time to put an end to the epidemic of stupidity once and for all.

**SubQuestion No : 49**

**Q.49 Which of the following techniques has been used by the author of the passage to convey the message?**

Ans    ✗ 1. Factual and chronological account

     ✗ 2. Examples and anecdotes

     ✗ 3. Parody and mimicry

     ✓ 4. Humour and exaggeration

---

**SubQuestion No : 50**

**Q.50 According to the passage, what is the solution to the issue of stupidity in society?**

Ans    ✗ 1. Electing politicians with catchy slogans

     ✗ 2. Teaching students how to pass tests

     ✓ 3. Encouraging critical thinking and problem-solving skills

     ✗ 4. Embracing ignorance and misinformation

**Q.1** The sequence of folding a piece of paper and the manner in which the folded paper is cut is shown in the following figures. How would this paper look when unfolded?



Ans

✗ 1.



✗ 2.



✗ 3.



✔ 4.
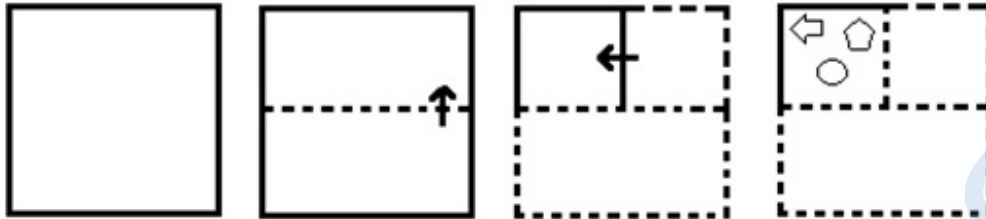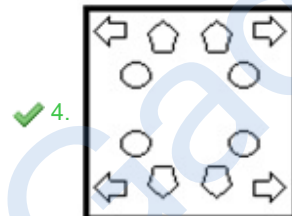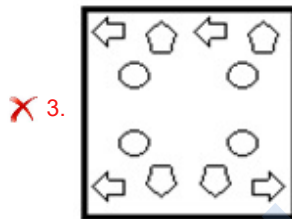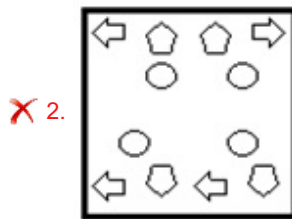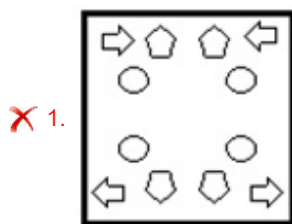


**Q.2** Aunt Gloria walked out of her house and walked 65 m towards the east. She took a left turn and walked 28 m. Again, she took a left turn and walked 110 m to reach a public library. How far (shortest distance) and in which direction is the library from Aunt Gloria's house?

Ans ✗ 1. 48 m, North-West

✔ 2. 53 m, North-West

✗ 3. 53 m, North-East

✗ 4. 48 m, North-East

**Q.3** In a certain code language, 'PAINT' is written as 'ODYTN' and 'BRUSH' is written as 'CMMOZ'. How will 'HOUSE' be written in that language?

**Ans**  ✗ 1. PHYWS

✗ 2. PBOMS

✓ 3. WPMOC

✗ 4. WDNOS

**Q.4** Select the correct mirror image of the given figure when the mirror is placed at line MN as shown.
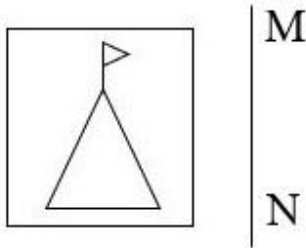


**Ans**

✗ 1.



✗ 2.



✓ 3.



✗ 4.



**Q.5** Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the odd letter-cluster.

**Ans**  ✗ 1. GCKD

✓ 2. XOTP

✗ 3. NJRK

✗ 4. UQYR

**Q.6** Select the option that is related to the fourth term in the same way as the first term is related to the second term and the fifth term is related to the sixth term.

**12 : 64 :: ? : 116 :: 32 : 144**

**Ans**  ✗ 1. 35

✗ 2. 14

✓ 3. 25

✗ 4. 46

If A denotes '+', B denotes '×', C denotes '−', and D denotes '÷', then what will be the value of the following expression?

89  A  94  C  35  D  8  B  8  =  ?

**Ans**

✗ 1. 189

✗ 2. 169

✔ 3. 148

✗ 4. 135

---

**Q.8**

Which figure from the given options would replace the question mark (?) if the following figure series were to be continued?



**Ans**

✗ 1.

✔ 2.

✗ 3.

✗ 4.

**Q.9** Two statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.
**Statements:**
Some apples are oranges.
All oranges are fruits.
**Conclusions:**
I) All apples are fruits.
II) Some fruits are oranges.

**Ans** ✗ 1. Neither Conclusion I nor II follows.

✔ 2. Only Conclusion II follows.

✗ 3. Both Conclusions I and II follow.

✗ 4. Only Conclusion I follows

---

**Q.10** Which letter-cluster will replace the question mark (?) to complete the given series?
PJVG, VBZB, BTDW, HLHR,?

**Ans** ✗ 1. MDLN

✔ 2. NDLM

✗ 3. NDLN

✗ 4. MDLM

---

**Q.11** Six people are sitting around a circular table facing the centre. P sits second to the left of Q. S is an immediate neighbour of both Q and U. T sits second to the left of R. Who is the immediate neighbour of both P and U?

**Ans** ✗ 1. Q

✔ 2. T

✗ 3. R

✗ 4. S

---

**Q.12** In a certain code language, 'EARS' is coded as '4268' and 'NICE' is coded as '9723'. What is the code for 'E' in the given code language?

**Ans** ✗ 1. 9

✗ 2. 4

✗ 3. 3

✔ 4. 2

---

**Q.13** A @ B means 'A is the husband of B'
A & B means 'A is the mother of B'
A # B means 'A is the daughter of B'
If Z # L @ P & K @ J # X, then how is K related to Z?

**Ans** ✗ 1. Mother

✔ 2. Brother

✗ 3. Sister

✗ 4. Brother' wife

**Q.14** Which of the given figures when placed in the 5ᵗʰ position would continue the series that is established by the first four figures?

**Ans**

1. ✔ (correct answer)

2. ✘

3. ✘

4. ✘

---
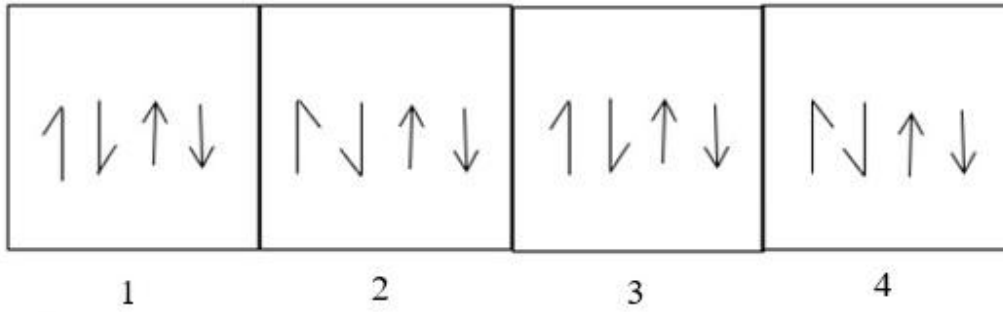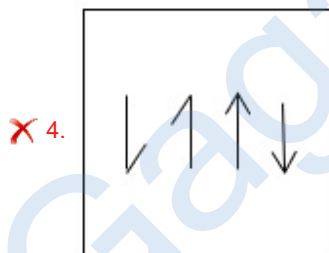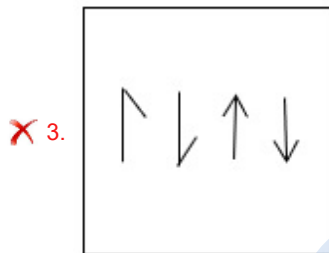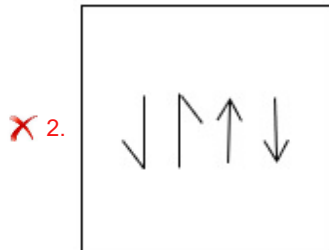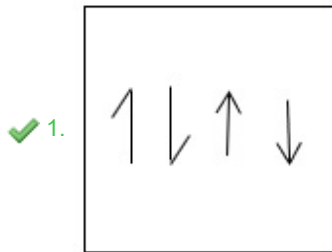
**Q.15** Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13- Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
(7, 2, 70)
(6, 4, 120)

**Ans** ✘ 1. (11, 6, 143)

✔ 2. (3, 8, 120)

✘ 3. (5, 9, 270)

✘ 4. (13, 4, 208)

**Q.16** Which of the following numbers will replace the question mark (?) in the given series?

134, 129, 122, ?, 102, 89

**Ans**   ✗ 1. 117

   ✗ 2. 111

   ✓ 3. 113

   ✗ 4. 115

**Q.17** If A denotes '+', B denotes '×', C denotes '−', and D denotes '÷', then what will be the value of the following equation?
21 B 14 C 154 D 14 A 42 = ?

**Ans**   ✓ 1. 325

   ✗ 2. 342

   ✗ 3. 352

   ✗ 4. 357

**Q.18** Two statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.
Statements:
Some rivers are oceans.
All oceans are beaches.
Conclusions:
I. Some rivers are beaches.
II. All oceans are rivers.

**Ans**   ✗ 1. Both conclusions I and II follow

   ✗ 2. Only conclusion II follows

   ✗ 3. Neither conclusion I nor II follows

   ✓ 4. Only conclusion I follows

**Q.19** In a certain code language, 'ALIVE' is coded as 64 and 'HALL' is coded as 45. How will 'MOVIE' be coded in that language?

**Ans**   ✓ 1. 79

   ✗ 2. 80

   ✗ 3. 58

   ✗ 4. 71

Select the figure that will come next in the following figure series.



**Ans**

✗ 1.



✔ 2.



✗ 3.
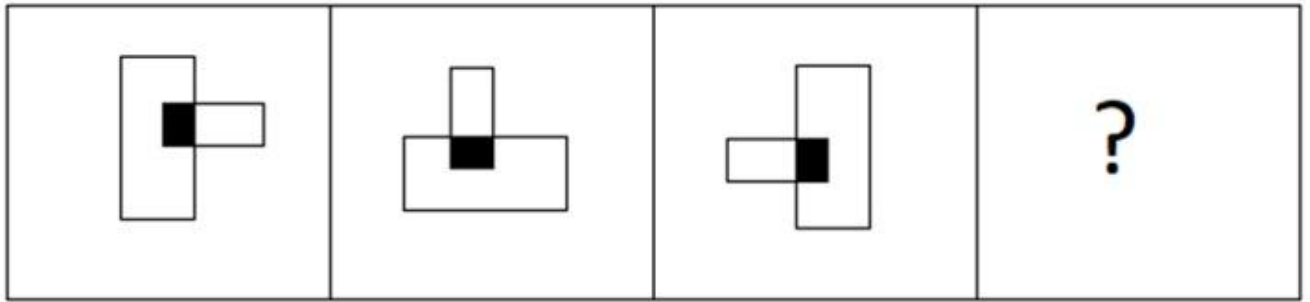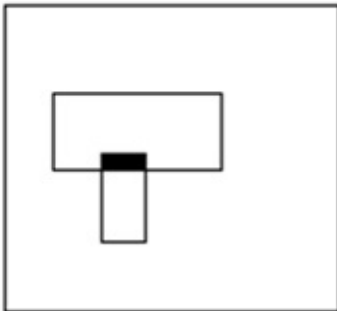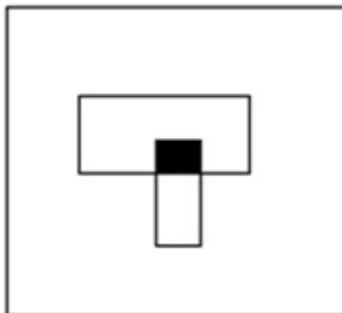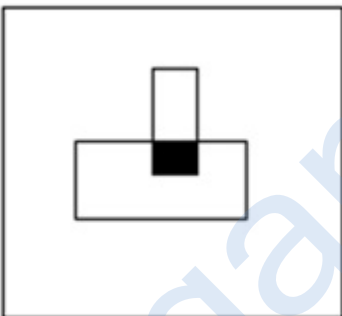


✗ 4.
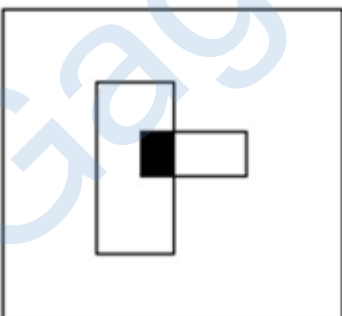


Q.21　Select the option that represents the letters which, when sequentially placed from left to right in the blanks below, will complete the letter series.

F _ _ Y _ _ K B _ O F _ B Y _

**Ans**　✔ 1. K B O F Y K O

✗ 2. B Y O K F O K

✗ 3. Y O K B F O K

✗ 4. O F K B O Y K

**Q.22** In a certain code language, 'SUGAR' is coded as 81 and 'FILL' is coded as 51. How will 'CREAM' be coded in that language?

**Ans**
  ✗ 1. 60

  ✓ 2. 55

  ✗ 3. 57

  ✗ 4. 52

**Q.23** Six students Prateek, Sameer, Kabir, Ziya, Joseph, Kiran are sitting around a circular table facing the centre (not necessarily in the same order). Prateek is an immediate neighbour of both Sameer and Kabir. Ziya is sitting second to the right of Sameer. Kiran is sitting third to the left of Kabir. Joseph is an immediate neighbour of both Ziya and Kabir. Who is an immediate neighbour of Ziya?

**Ans**
  ✗ 1. Sameer

  ✗ 2. Prateek

  ✗ 3. Kabir

  ✓ 4. Kiran

**Q.24** Two statements are given followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.
Statements:
All teas are juices.
All juices are cocktails.
Conclusions:
I. All teas are cocktails.
II. All cocktails are definitely juices.

**Ans**
  ✗ 1. Neither conclusion I nor II follows

  ✗ 2. Both conclusions I and II follow

  ✗ 3. Only conclusion II follows

  ✓ 4. Only conclusion I follows

**Q.25** Which two mathematical signs should be interchanged to make the given equation correct?

$15 \times 3 \div 15 - (45 \times 3) - 10 + (13 \div 2) = 76$

**Ans**
  ✗ 1. × and –

  ✗ 2. ÷ and +

  ✓ 3. ÷ and ×

  ✗ 4. × and +

**Q.26** Which of the following numbers will replace the question mark (?) in the given series?

$$\frac{1}{121}, \frac{1}{11}, 1, ?, 121$$

**Ans**
  ✗ 1. 12

  ✗ 2. 1

  ✓ 3. 11

  ✗ 4. 21

**Q.27** Which letter-cluster will replace the question mark (?) to complete the given series?
AXFN, GCJQ, MHNT, ?, YRVZ

**Ans**
  ✗ 1. QRLV

  ✗ 2. RLQV

  ✗ 3. SWMR

  ✓ 4. SMRW

**Q.28** Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.

INDIA : FKAFX :: ESTONIA : BPQLKFX:: MALAYSIA :?

**Ans**   ✗ 1. JXIXFXVP

   ✗ 2. JXVPFXXI

   ✗ 3. JPFXXIXV

   ✓ 4. JXIXVPFX

---

**Q.29** If A denotes '+', B denotes '×', C denotes '−', and D denotes '÷', then what will come in place of '?' in the following equation?
56 D 8 B 7 = ? B 7

**Ans**   ✗ 1. 12

   ✗ 2. 8

   ✗ 3. 9

   ✓ 4. 7

---

**Q.30** Which of the following numbers will replace the question mark (?) in the given series?
76, 99, 135, 185, 250, ?

**Ans**   ✗ 1. 330

   ✗ 2. 315

   ✗ 3. 328

   ✓ 4. 331

---

**Q.31** Select the option that is related to the third word in the same way as the second word is related to the first word.
(The words must be considered as meaningful words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)
Artist : Painting :: Cobbler : ?

**Ans**   ✗ 1. Wooden repair work

   ✓ 2. Fixing shoes

   ✗ 3. Fixes electricity

   ✗ 4. Stitching clothes

---

**Q.32** Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term.
16 : 106 :: 11 : ? :: 10 : 22

**Ans**   ✓ 1. 31

   ✗ 2. 36

   ✗ 3. 40

   ✗ 4. 42

**Q.33** Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

M

8 B E Y T K @ 8

N

**Ans**

✗ 1. 8 ᴙ ᴋ ᴛ ʏ Ǝ ᴇ 8

✗ 2. 8 @ ᴋ ᴛ ʏ Ǝ ᴇ 8

✓ 3. 8 @ ᴋ ᴛ ʏ Ǝ ᴇ 8

✗ 4. 8 ᴙ ᴋ ᴛ ʏ Ǝ ᴇ 8

**Q.34** A cube is made by folding the given sheet. In the cube so formed, which letter will be on the face opposite to the face having 'F'?

```
    E
  A D
    B
    F C
```
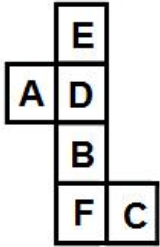
**Ans**

✗ 1. B

✓ 2. D

✗ 3. A

✗ 4. E

**Q.35** Select the option figure in which the given figure is embedded as its part (rotation is NOT allowed).



**Ans**

✗ 1. 
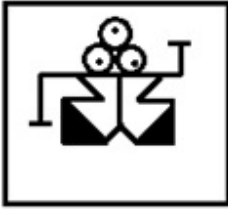
✗ 2. 

✔ 3. 

✗ 4. 

**Q.36** Six characters A, B, C, 1, 2 and 3 are written on different faces of a dice. Two positions of this dice are shown in the figure. Find the character on the face opposite to A.
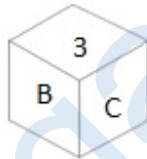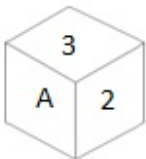


**Ans**

✔ 1. B

✗ 2. C

✗ 3. 2

✗ 4. 1

**Q.37** If '+' means '−', '−' means '×', '×' means '÷', '÷' means '+', then what will come in place of the question mark (?) in the following equation?
23 − 5 ÷ 240 × 8 + 14 = ?

**Ans**

✔ 1. 131

✗ 2. 119

✗ 3. 145

✗ 4. 124

**Q.38** Which of the following numbers will replace the question mark (?) in the given series?

4, 11, 19, 31, 52, 89, ?

**Ans**
- ✗ 1. 105
- ✓ 2. 151
- ✗ 3. 150
- ✗ 4. 115

**Q.39** A cube is made by folding the given sheet. In the cube so formed, which pair of letters will be on the opposite faces?
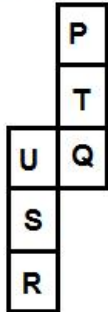


**Ans**
- ✓ 1. T and S
- ✗ 2. P and U
- ✗ 3. U and T
- ✗ 4. R and P

**Q.40** Select the option that represents the correct order of the given words as they would appear in an English dictionary?
1.Wrist
2.Wrangle
3.Workable
4.Wrongful
5.Woodland

**Ans**
- ✓ 1. 5, 3, 2, 1, 4
- ✗ 2. 3, 2, 5, 1, 4
- ✗ 3. 3, 5, 2, 1, 4
- ✗ 4. 5, 2, 3, 1, 4

**Q.41** Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.

1. Doctor
2. Doctorate
3. Docile
4. Documentary
5. Dock
6. Doctrine

**Ans**
- ✗ 1. 3, 5, 2, 1, 6, 4
- ✗ 2. 3, 5, 1, 6, 2, 4
- ✗ 3. 3, 4, 5, 1, 2, 6,
- ✓ 4. 3, 5, 1, 2, 6, 4

**Q.42** Manohar cycles X km towards west and then turns right and cycles Y km to reach his office. Now, the shortest distance between the starting point and his office is 13 km. What can be the value of X and Y, respectively, (in km)?

**Ans**
- ✓ 1. 12 and 5
- ✗ 2. 11 and 6
- ✗ 3. 6 and 7
- ✗ 4. 8 and 5

**Q.43** Select the set in which the numbers are related in the same way as are the numbers of the following set.

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /subtracting/ multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)

(9, 1, 19)
(5, 2, 14)

**Ans**

✗ 1. (4,7,37)

✗ 2. (2,5,12)

✗ 3. (3,5,56)

✔ 4. (3,2,10)

---

**Q.44** If the given sheet is folded to form a cube, which of the following figures is possible?

| 7 | 8 | 9 |
|---|---|---|
|   | X |   |
|   | Y |   |
|   | Z |   |

**Ans**

✗ 1.

✗ 2.

✗ 3.

✔ 4.
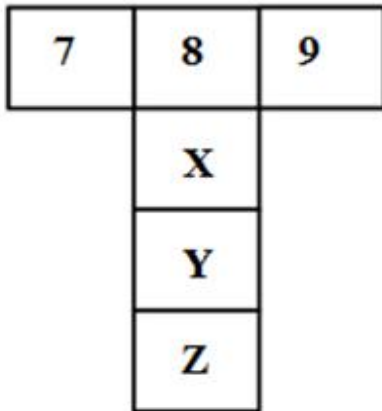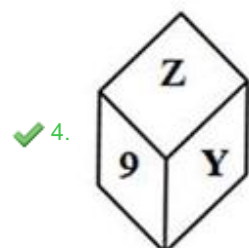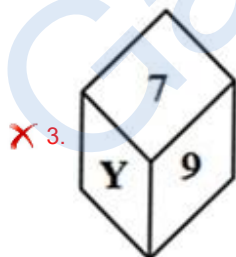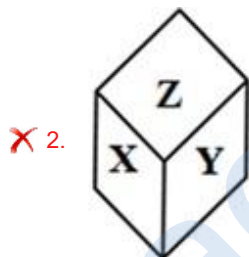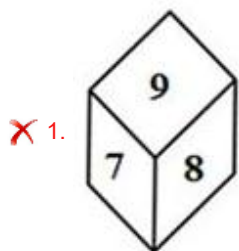
**Q.45** Two statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.
**Statements:**
Some movies are dramas.
Some dramas are fiction.
**Conclusions:**
I. Some movies are fiction.
II. All fiction are movies.

**Ans**  ✗ 1. Only conclusion II follows

✗ 2. Only conclusion I follows

✗ 3. Both conclusions I and II follow

✔ 4. Neither conclusion I nor II follows

---

**Q.46** If A denotes '+', B denotes '×', C denotes '−', and D denotes '÷', then what will be the value of the following equation?
22 B 7 C 288 D 12 A 27 = ?

**Ans**  ✔ 1. 157

✗ 2. 103

✗ 3. 160

✗ 4. 130

---

**Q.47** If '+' means '×', '−' means '÷', '×' means '+', and '÷' means '−', then what will be the value of the following expression?
42 × 168 - 8 ÷ 4 + 3 = ?

**Ans**  ✔ 1. 51

✗ 2. 62

✗ 3. 56

✗ 4. 45

---

**Q.48** In a certain code language, 'ACTOR' is coded as ROYCA and 'NURSE' is coded as ESWUN. How will 'JUDGE' be coded in the same language?

**Ans**  ✗ 1. GEIUJ

✔ 2. EGIUJ

✗ 3. EGUIJ

✗ 4. EGJUI

---

**Q.49** 'F $ G' means 'F is the mother of G'.
'F # G' means 'F is the father of G'.
'F @ G' means 'F is the husband of G'.
'F % G' means 'F is the daughter of G'.
If J @ C $ B # R, then how is J related to R?

**Ans**  ✗ 1. Mother's brother

✗ 2. Father's sister

✗ 3. Father

✔ 4. Father's father

---

**Q.50** Based on the position in the English alphabetical order, three of the following letter-clusters are alike in some manner and one is different. Select the odd letter-cluster.

**Ans**  ✗ 1. SWYX

✔ 2. LOQP

✗ 3. RVXW

✗ 4. PTVU

**Q.1** What is the IUPAC name of the organic compound depicted in the figure?
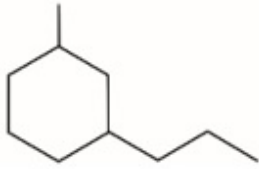


**Ans** ✗ 1. 1-Methyl-2-Propylcyclohexane

✗ 2. 1-Methyl-1-Propylcyclohexane

✓ 3. 1-Methyl-3-Propylcyclohexane

✗ 4. 1-Methyl-4-Propylcyclohexane

---

**Q.2** Rongker festival is celebrated by which of the following tribes?

**Ans** ✗ 1. Gond

✓ 2. Karbi

✗ 3. Ao

✗ 4. Bhil

---

**Q.3** Who became the first Indian to win the prestigious Zurich Diamond League Final 2022 in Switzerland?

**Ans** ✗ 1. Mary Kom

✗ 2. Rameshbabu Praggnanandhaa

✓ 3. Neeraj Chopra

✗ 4. PV Sindhu

---

**Q.4** Which of the following is an autobiography of a Bengali illiterate woman who secretly acquired literacy skills to read sacred texts in an age when girls and women were denied education and deemed fit only for household chores?

**Ans** ✗ 1. Jina Amucha by Baby Kamble

✓ 2. Amar Jiban by Rassundari Devi

✗ 3. Smritichitre by Lakshmibai Tilak

✗ 4. Ente Katha by Kamala Das

---

**Q.5** Which of the following taxes is proportional in nature?

**Ans** ✗ 1. Corporation Tax

✗ 2. Capital Gains Tax

✓ 3. Goods and Services Tax

✗ 4. Income Tax

---

**Q.6** Which of the following sports does NOT have its apex national governing body headquartered in New Delhi?

**Ans** ✗ 1. Badminton Association of India

✓ 2. Volleyball Federation of India

✗ 3. Athletes Federation of India

✗ 4. Hockey India

---

**Q.7** What was the rural literacy rate in India, according to the 2011 Census?

**Ans** ✗ 1. 67.00%

✓ 2. 66.77%

✗ 3. 69.00%

✗ 4. 67.77%

**Q.8** Which of the following places of India can have maximum temperature difference between the day and night?

**Ans** ✅ 1. Jaisalmer

❌ 2. Kanyakumari

❌ 3. Thiruvananthapuram

❌ 4. Port Blair

**Q.9** Which Rajput princess belonged to the Bhakti tradition of Medieval India, whose songs were devoted to Lord Krishna?

**Ans** ❌ 1. Muddupalani

❌ 2. Akka Mahadevi

✅ 3. Mirabai

❌ 4. Lal Ded

**Q.10** The Vijayanagar kingdom was established by _____ in 1336.

**Ans** ❌ 1. Venkata II

❌ 2. Devaraya II

✅ 3. Harihara and Bukka

❌ 4. Krishnadevaraya

**Q.11** Identify whether the given statements about ionisation energy are correct or incorrect.
Statement A: The ionisation energy of an atom is the amount of energy that is required to remove an electron from a mole of atoms in the gas phase.
Statement B: The ionisation energy increases from top to bottom in groups and decreases from left to right across a period.

**Ans** ❌ 1. Only Statement B is correct

✅ 2. Only Statement A is correct

❌ 3. Both Statements A and B are correct

❌ 4. Both Statements A and B are incorrect

**Q.12** Mohiniyattam, a classical dance of India belongs to which of the following states?

**Ans** ❌ 1. Uttar Pradesh

✅ 2. Kerala

❌ 3. Manipur

❌ 4. Andhra Pradesh

**Q.13** The Lucknow Pact was signed in _____ by Congress and the Muslim League to work in alliance for representative government.

**Ans** ✅ 1. 1916

❌ 2. 1918

❌ 3. 1920

❌ 4. 1914

**Q.14** Which part of the Indian Constitution deals with directive principles of state policy?

**Ans** ❌ 1. Part VII

✅ 2. Part IV

❌ 3. Part V

❌ 4. Part VI

**Q.15**  Which of the following is INCORRECT match?

**Ans**
✗ 1. Force – Newton

✗ 2. Pressure – Pascal

✗ 3. Work done – Joule

✓ 4. Volume – Meter

**Q.16**  Which of the following is the autobiography of the first Indian President Dr. Rajendra Prasad?

**Ans**
✗ 1. A Shot at History

✗ 2. My Country My Life

✓ 3. Atmakatha

✗ 4. Atmavrittanta

**Q.17**  When was the National Interim Government of India formed, under Jawaharlal Nehru?

**Ans**
✓ 1. 2 September 1946

✗ 2. 2 September 1945

✗ 3. 20 September 1946

✗ 4. 2 September 1947

**Q.18**  What is most important health benefits of Vitamin D?

**Ans**
✓ 1. Strengthening of bones and muscles

✗ 2. Reducing the blood pressure

✗ 3. Elevation of heartbeat

✗ 4. Rapid growth after teenage years

**Q.19**  During Which phase of the cell cycle does metabolic changes assemble the cytoplasmic material required for mitosis and cytokinesis?

**Ans**
✓ 1. G2 phase

✗ 2. G1 phase

✗ 3. M phase

✗ 4. S phase

**Q.20**  Identify an anomaly element that belongs to both group 1 and group 17.

**Ans**
✗ 1. Nitrogen

✗ 2. Chlorine

✓ 3. Hydrogen

✗ 4. Oxygen

**Q.21**  Which element of the boron family has a high boiling point, making it ideal for recording temperatures that would vaporise a thermometer?

**Ans**
✗ 1. Indium

✗ 2. Thallium

✗ 3. Aluminium

✓ 4. Gallium

**Q.22** In which year Timur's invasion of Delhi took place?

**Ans**   ✓ 1. 1398

   ✗ 2. 1221

   ✗ 3. 1492

   ✗ 4. 1526

**Q.23** Which of the following policy measures is a step towards liberalisation?

**Ans**   ✗ 1. Enhancing tariffs

   ✓ 2. Eliminating licenses for importing a majority of goods

   ✗ 3. Increasing requirements for bank reserves and restrictions on interest rates

   ✗ 4. Imposing limits on capital accumulation

**Q.24** Expenditure of the government on health facilities, education and fixed-asset acquisition is termed as _____.

**Ans**   ✗ 1. revenue expenditure

   ✗ 2. non-plan revenue expenditure

   ✓ 3. capital expenditure

   ✗ 4. plan expenditure

**Q.25** According to Census of India 2011, identify the third largest spoken language in India.

**Ans**   ✓ 1. Marathi

   ✗ 2. Tamil

   ✗ 3. Bengali

   ✗ 4. Hindi

**Q.26** What is the name of the geostationary satellite launched by ISRO in 1983 that provides high power TV broadcasting and telecommunications national coverage transponders?

**Ans**   ✗ 1. RISAT-1

   ✗ 2. Bhaskara-I

   ✓ 3. Insat-1B

   ✗ 4. GSAT-7

**Q.27** The President of India decides on the question as to the disqualification of Members of Parliament in consultation with the _____.

**Ans**   ✗ 1. Vice President

   ✗ 2. Supreme Court of India

   ✗ 3. Parliament

   ✓ 4. Election Commission of India

**Q.28** Which of the following cultural festivals of South India is associated with the folklore of King Mahabali?

**Ans**   ✗ 1. Gudi Padwa

   ✓ 2. Onam

   ✗ 3. Ugadi

   ✗ 4. Pongal

**Q.29** Mohiniyattam belongs to which of the following states?

**Ans**
- ✗ 1. Karnataka
- ✓ 2. Kerala
- ✗ 3. Jharkhand
- ✗ 4. Chhattisgarh

**Q.30** Europeans entered India with a mindset of trading only. This streak was initiated by which of the following European nations?

**Ans**
- ✗ 1. Dutch
- ✗ 2. French
- ✗ 3. British
- ✓ 4. Portuguese

**Q.31** Which of the following government departments is associated with infrastructure development in India?

**Ans**
- ✗ 1. Division of Electricity Agenda
- ✗ 2. Division of Economic Agenda
- ✗ 3. Department of Energy Affairs
- ✓ 4. Department of Economic Affairs

**Q.32** Which of the following Articles of the Constitution of India provides that the Governor appoints the Chief Minister and later, the Chief Minister recommends the appointment of ministers to the Governor?

**Ans**
- ✗ 1. Article 163
- ✗ 2. Article 165
- ✓ 3. Article 164
- ✗ 4. Article 167

**Q.33** What type of climate is found in North Western Europe, West Coast of North America, North of California, Southern Chile, South-eastern Australia and New Zealand?

**Ans**
- ✗ 1. Tropical wet and dry climate
- ✗ 2. Cold snow forest climate
- ✓ 3. Marine west coast climate
- ✗ 4. Subtropical steppe climate

**Q.34** Mango showers are:

**Ans**
- ✗ 1. cyclones
- ✗ 2. jet streams
- ✓ 3. pre-monsoon showers
- ✗ 4. storms

**Q.35** FIFA Women's World Cup 2023 will be hosted by_____.

**Ans**
- ✗ 1. USA and Canada
- ✗ 2. Brazil and Argentina
- ✗ 3. France and Germany
- ✓ 4. Australia and New Zealand

**Q.36** Which of the following is the new alluvium deposited by floods in the Ganga Plain?

**Ans** ✗ 1. Bhangar

✓ 2. Khadar

✗ 3. Regur

✗ 4. Kachhar

**Q.37** Who among the following Mauryan kings turned to Buddhism and its tenet of non-violence after the Kalinga war?

**Ans** ✓ 1. Ashoka

✗ 2. Dasharatha

✗ 3. Chandragupta Maurya

✗ 4. Bindusara

**Q.38** Which of the following Articles of the Indian Constitution empowers the Parliament to restrict or abrogate the fundamental rights of the members of the armed forces, para-military forces, police forces, intelligence agencies and analogous forces?

**Ans** ✓ 1. Article 33

✗ 2. Article 31

✗ 3. Article 37

✗ 4. Article 35

**Q.39** Gopika Varma has won the Sangeet Natak Akademi Award in 2019 in which of the following dance forms?

**Ans** ✗ 1. Bharatanatyam

✓ 2. Mohiniyattam

✗ 3. Kathak

✗ 4. Kuchipudi

**Q.40** How many medal(s) did India win in the World Athletics Championship 2022?

**Ans** ✗ 1. 2

✓ 2. 1

✗ 3. 3

✗ 4. 4

**Q.41** Haripriya Namboodiri is an exponent of which Indian classical dance form?

**Ans** ✗ 1. Kuchipudi

✗ 2. Odissi

✗ 3. Bharatanatyam

✓ 4. Kathakali

**Q.42** During one of the Five-Year Plans which of the following politicians gave the slogan 'Garibi Hatao'?

**Ans** ✗ 1. Gaini Zail Singh

✓ 2. Indira Gandhi

✗ 3. Charan Singh

✗ 4. Morarji Desai

**Q.43** Mohenjodaro site of Harappan civilisation is situated on the bank of which river?

**Ans**
  ✗ 1. Gharghara river

  ✗ 2. Beas river

  ✗ 3. Jhelum river

  ✓ 4. Indus river

**Q.44** How big are red blood cells in diameter?

**Ans**
  ✗ 1. 40.0 μm

  ✓ 2. 7.5 μm

  ✗ 3. 2.0 μm

  ✗ 4. 4.0 μm

**Q.45** The Wadali Brothers are _____ singers.

**Ans**
  ✗ 1. Bhatiali

  ✗ 2. Lavani

  ✓ 3. Sufi

  ✗ 4. Pandavani

**Q.46** What is the name of the large supercontinent that existed 200 million years ago when all the continents were together?

**Ans**
  ✓ 1. Pangea

  ✗ 2. Asia

  ✗ 3. India

  ✗ 4. America

**Q.47** Which among the following is INCORRECT about the salient features of the 73$^{rd}$ Amendment Act?

**Ans**
  ✓ 1. The Act corresponds to Part III of the Constitution of India.

  ✗ 2. The Act gives a Constitutional status to the Panchayati Raj Institutions.

  ✗ 3. The Act has added the Eleventh Schedule to the Constitution of India.

  ✗ 4. It contains 29 functional items of the Panchayats and deals with Article 243 to 243(O).

**Q.48** Which Article of the Indian Constitution provides for equal opportunity for all citizens in the matter of employment under the state?

**Ans**
  ✗ 1. Article 17

  ✗ 2. Article 15

  ✗ 3. Article 18

  ✓ 4. Article 16

**Q.49** Which of the following is NOT an example of manufacturing activity?

**Ans**
  ✗ 1. Paper made from wood

  ✓ 2. Mutual fund product made by combing debt and equity funds

  ✗ 3. Yarn made from cotton

  ✗ 4. Sugar made from sugarcane

**Q.50** Who explained the structure of protein?

**Ans** ✗ 1. Emil Fischer

✓ 2. Pauling and Corey

✗ 3. Johnson and Cristae

✗ 4. RF Rose

---

**Q.1** A car, during its entire journey of 5 hours, travels the first 45 minutes at a certain speed, the next 75 minutes at a speed of 85 km/h, and the last 3 hours at a speed of 70 km/h. During its entire journey, the average speed of the car is found to be 73 km/h. What is the speed (in km/h) of the car during the first 45 minutes?

**Ans** ✗ 1. 62

✓ 2. 65

✗ 3. 72

✗ 4. 68

---

**Q.2** The LCM and HCF of two numbers are 1105 and 5. If the LCM is 17 times the first number, then find the two numbers.

**Ans** ✗ 1. 55 and 85

✗ 2. 65 and 75

✗ 3. 60 and 80

✓ 4. 65 and 85

---

**Q.3** If sec A - tan A = p, then find the value of sec A.

**Ans**

✗ 1. $\dfrac{p^2 - 1}{p^2 + 1}$

✗ 2. $\dfrac{p^2 + 1}{p^2 - 1}$

✓ 3. $\dfrac{p^2 + 1}{2p}$

✗ 4. $\dfrac{p^2 + 1}{p}$

---

**Q.4** The area of a rectangular field is 480 m$^2$. If the length is 20% more than the breadth, then the length of the rectangular field is:

**Ans** ✓ 1. 24 m

✗ 2. 20 m

✗ 3. 27 m

✗ 4. 30 m

**Q.5** Study the given pie-chart and answer the question that follows.
The pie-chart shows the sale of different fruits in a shop in a day.
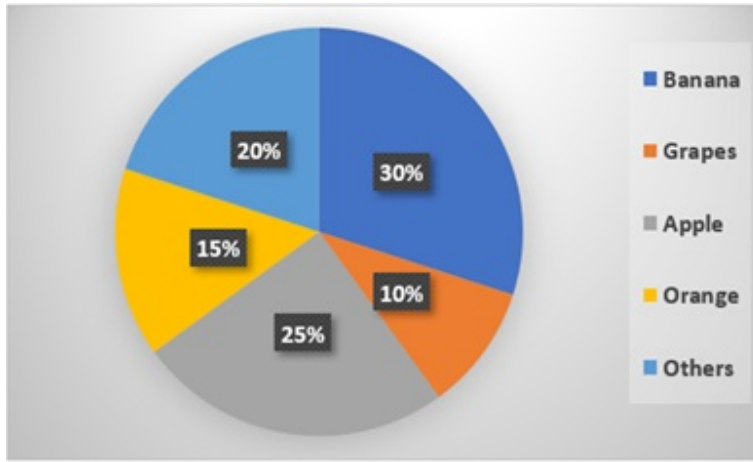


If a total of 1200 kg of fruits were sold in a day, calculate the amount of bananas sold (in kg).

**Ans**  ✗ 1. 260

✗ 2. 330

✓ 3. 360

✗ 4. 290

**Q.6** The value of $\dfrac{(157 \times 157) + (157 \times 133) + (133 \times 133)}{(157 \times 157 \times 157) - (133 \times 133 \times 133)}$ is:

**Ans**  ✗ 1. 24

✗ 2. $\dfrac{1}{290}$

✗ 3. 290

✓ 4. $\dfrac{1}{24}$

**Q.7** Study the given pie-chart and answer the question that follows.
The pie-chart shows the number of boys studying in play group of various schools (A, B, C).

**Total number of boys = 2000**



A
13%

C
55%

B
32%
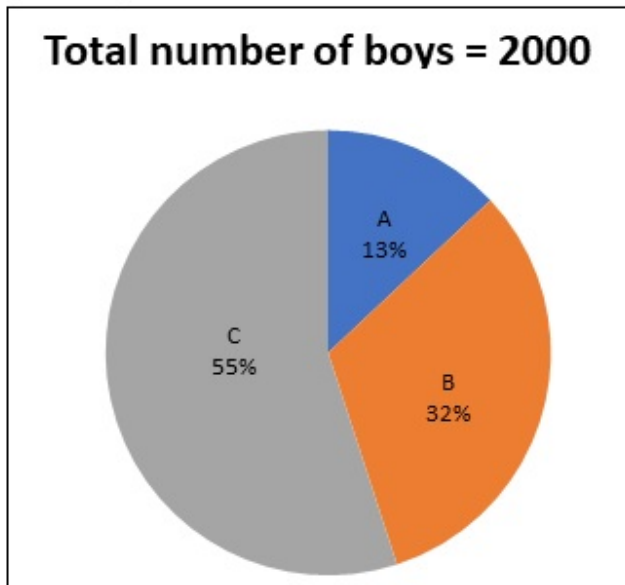
What is the average number of boys studying in schools A and C?

**Ans** ✅ 1. 680

❌ 2. 920

❌ 3. 560

❌ 4. 740

---

**Q.8** In an office, 75 employees can finish a project in 60 days. After few days, 15 employees left the job and the project was completed in 65 days. After how many days did the 15 employees leave?

**Ans** ✅ 1. 40

❌ 2. 50

❌ 3. 45

❌ 4. 30

---

**Q.9** Ramesh borrowed ₹15,000 at a certain rate of simple interest from a bank. He repaid (the principal but not interest) ₹6,000 after 5 years, and after 5 more years he paid ₹18,600 and settled his account. Find the rate of simple interest per annum.

**Ans** ❌ 1. 10%

✅ 2. 8%

❌ 3. 12%

❌ 4. 6%

**Q.10** The table below shows the production of jute fabric (in lakh metre) by two Companies P and Q during 2001 to 2005.

| Year | Company P | Company Q |
|------|-----------|-----------|
| 2001 | 100 | 96 |
| 2002 | 120 | 130 |
| 2003 | 108 | 100 |
| 2004 | 190 | 180 |
| 2005 | 240 | 275 |

In which year/years, did Company Q produce more fabric than Company P?

**Ans**
✗ 1. 2003, 2005

✓ 2. 2002, 2005

✗ 3. 2002

✗ 4. 2005

**Q.11** Two trains of lengths 200 m and 250 m are running on parallel rail tracks at speeds of 68 km/h and 50 km/h, respectively. In how much time (in seconds) will they cross each other if they are running in the same direction?

**Ans**
✓ 1. 90

✗ 2. 80

✗ 3. 75

✗ 4. 85

**Q.12** In a circle centred at O, PQ is a tangent at P. Furthermore, AB is the chord of the circle and is extended to Q. If PQ = 12 cm and QB = 8 cm, then the length of AB is equal to:

**Ans**
✗ 1. 8 cm

✗ 2. 20 cm

✗ 3. 4 cm

✓ 4. 10 cm

**Q.13** If a shopkeeper allows a discount of 10% to his customers and still gains 30%, then the marked price of an article which costs ₹450 is:

**Ans**
✗ 1. ₹700

✗ 2. ₹500

✓ 3. ₹650

✗ 4. ₹750

**Q.14** Travelling a distance of 1000 km, a train slowed down due to repairs of the tracks. Its average speed for the trip reduced by 75 km/h and the time of travel increased by 3 hours. The original duration of the travel is:

**Ans**
✓ 1. 5 hours

✗ 2. 6 hours

✗ 3. 6.5 hours

✗ 4. 5.5 hours

**Q.15** Find the HCF of 240, 280 and 560.

**Ans**
✓ 1. 40

✗ 2. 30

✗ 3. 20

✗ 4. 10

**Q.16** Peter invested a certain sum of money in a scheme paying 10% simple interest per annum, while Rachel invested half of the sum that Peter invested in a scheme paying 10% interest per annum compounded annually. Also, while Peter invested for 2 years, Rachel invested for 3 years. If the difference in the interest earned by Peter and Rachel was ₹897, what was the sum that Rachel had invested?

**Ans**

✗ 1. ₹12,900

✓ 2. ₹13,000

✗ 3. ₹13,100

✗ 4. ₹12,960

**Q.17** In a ΔPQR,∠P:∠Q:∠R=3:4:8. The shortest side and the longest side of the triangle, respectively, are:

**Ans**

✗ 1. QR and PR

✗ 2. PQ and PR

✗ 3. PQ and QR

✓ 4. QR and PQ

**Q.18** Akshita and Raina are typing a book, but have only one laptop to work upon. They decided that they will work on alternate basis such that Akshita works for the first day, Raina works for the second day, Akshita for the third day and so on. Akshita alone can finish the typing work in 16 days, while Raina will take 24 days if she works alone on the entire book. How many days will they take to finish the typing work if they work on alternate basis?

**Ans**

✓ 1. 19

✗ 2. 15

✗ 3. 17

✗ 4. 18

**Q.19** A number is first decreased by 28% and then increased by 28%. The number so obtained is 784 less than the original number. Find the value of the original number.

**Ans**

✗ 1. 15000

✗ 2. 1500

✓ 3. 10000

✗ 4. 1000

**Q.20** $2(\sin 1° × \sec 89°) + 3(\cos 11° × \text{cosec } 79°) + 5(\tan 21° × \tan 69°) = ?$

**Ans**

✗ 1. 20

✗ 2. 12

✗ 3. 11

✓ 4. 10

**Q.21** The price of a stock increased by 30% in the first year and decreased by 20% in the second year. If an investor bought 100 shares of the stock for ₹1,000, then what is the final value of the investment after 2 years?

**Ans**

✗ 1. ₹960

✗ 2. ₹1,400

✗ 3. ₹1,020

✓ 4. ₹1,040

**Q.22** Which is the smallest natural number that is exactly divisible by each of 96, 108 and 144?

**Ans**

✗ 1. 1728

✓ 2. 864

✗ 3. 1296

✗ 4. 2592

**Q.23** A train covers a distance of 540 km between two stations in 240 minutes. It travels at a speed of 90 km/h to another station in 5 hours. What is the average speed of the train (in km/h)?

**Ans** ✗ 1. 100

✗ 2. 112

✔ 3. 110

✗ 4. 120

---

**Q.24** The HCF of 3888 and 3969 is:

**Ans** ✔ 1. 81

✗ 2. 73

✗ 3. 83

✗ 4. 71

---

**Q.25** The following table shows the number of mobile phones sold by four different stores in four different yirs.

| Stores | 2012 | 2013 | 2014 | 2015 |
|--------|------|------|------|------|
| P | 178 | 183 | 205 | 225 |
| Q | 133 | 198 | 220 | 235 |
| R | 284 | 250 | 220 | 198 |
| S | 225 | 243 | 199 | 205 |

Find the difference between the number of mobile phones sold by store Q in 2013 and store S in 2015.

**Ans** ✔ 1. 7

✗ 2. 8

✗ 3. 12

✗ 4. 10

---

**Q.26** The number of hours spent by a student on different activities as shown in the following pie chart:
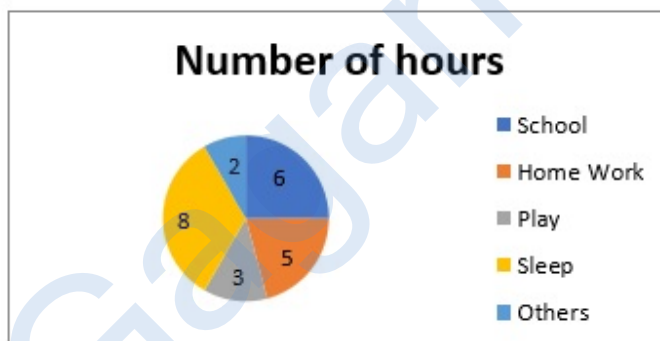


The central angle corresponding to the sleeping time is what percentage of the whole central angle?

**Ans** ✗ 1. 50%

✔ 2. 33.33%

✗ 3. 55%

✗ 4. 66.66%

**Q.27** Find the value of $\sqrt{\dfrac{1-\tan A}{1+\tan A}}$.

Ans

✗ 1. $\sqrt{\dfrac{1+\sin A}{\cos A}}$

✗ 2. $\sqrt{\dfrac{1+\sin 2A}{\cos 2A}}$

✗ 3. $\sqrt{\dfrac{1-\sin A}{\cos A}}$

✔ 4. $\sqrt{\dfrac{1-\sin 2A}{\cos 2A}}$

---

**Q.28** If the diameter of a sphere is reduced to its half, then the volume would be:

Ans

✔ 1. reduced by $\dfrac{1}{8}$ of the former volume

✗ 2. increased by $\dfrac{1}{4}$ of the former volume

✗ 3. reduced by $\dfrac{1}{4}$ of the former volume

✗ 4. increased by $\dfrac{1}{8}$ of the former volume

---

**Q.29** The fourth proportional to 0.3, 0.8 and 0.108 is:

Ans ✗ 1. 0.482

✗ 2. 0.124

✗ 3. 0.144

✔ 4. 0.288

---

**Q.30** The upstream speed of a boat is 8 km/h and the downstream is 15 km/h. What is the speed of the boat in still water and the speed of the stream (in km/h), respectively?

Ans ✔ 1. 11.5 and 3.5

✗ 2. 3.5 and 11.5

✗ 3. 3 and 11

✗ 4. 11 and 3

**Q.31** Simplify the following.

$$19 \div 5 \text{ of } \left(27 - \overline{15 - 21}\right) + 37$$

**Ans**

✗ 1. $\dfrac{6142}{165}$

✓ 2. $\dfrac{6124}{165}$

✗ 3. $\dfrac{19}{165}$

✗ 4. $\dfrac{37}{165}$

**Q.32** The following pie chart shows the number of students who failed in different subjects in an examination. Examine the chart and answer the following question. The total number of students who have failed is 350.
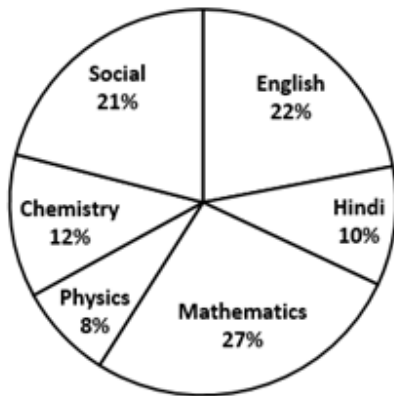


The number of students failed in mathematics is less than the number of students failed in all other subjects by:

**Ans**

✓ 1. 161

✗ 2. 190

✗ 3. 95

✗ 4. 256

**Q.33** $7 \sin^2 A + 3 \cos^2 A = 4$, then find cotA:

**Ans**

✗ 1. $\dfrac{1}{\sqrt{3}}$

✗ 2. $\dfrac{1}{\sqrt{2}}$

✓ 3. $\sqrt{3}$

✗ 4. $\sqrt{2}$

**Q.34** Study the given table and answer the question that follows.

The table shows the number of people who responded to a survey about their favourite style of music.

| Age | 18-20 | 21-30 | 31+ |
|---------|-------|-------|-----|
| Classical | 8 | 5 | 15 |
| Pop | 5 | 11 | 10 |
| Hip-Hop | 6 | 9 | 8 |
| Rock | 9 | 7 | 13 |
| Total | 28 | 32 | 46 |

What percentage of the total sample indicated that Rock is their favourite style of music (rounded off to 2 decimal places)?

**Ans** ✗ 1. 29.65%

✗ 2. 18.25%

✓ 3. 27.36%

✗ 4. 22.35%

---

**Q.35** A vendor marked the selling price of a table at ₹5,670 after adding 35% profit to its cost price. Since the sale was very low at this price level, he decided to sell the table with 12% profit. Find the new selling price (in ₹).

**Ans** ✗ 1. 4,750

✗ 2. 4,608

✗ 3. 4,810

✓ 4. 4,704

---

**Q.36** Some medicine in liquid form is prepared in a hemispherical container of diameter 36 cm. When the container is full of medicine, the medicine is transferred to small cylindrical bottles of diameter 6 cm and height 6 cm. How many bottles are required to empty the container?

**Ans** ✗ 1. 70

✗ 2. 75

✓ 3. 72

✗ 4. 76

---

**Q.37** Tom can do a piece of work in 7 days, whereas Jay can do the same work in 14 days. How long will they take to finish the work if both work together?

**Ans** ✗ 1. $2\dfrac{2}{3}$ days

✗ 2. $7\dfrac{2}{3}$ days

✓ 3. $4\dfrac{2}{3}$ days

✗ 4. $5\dfrac{2}{3}$ days

**Q.38** Study the pie-chart given below, and answer the question that follows.
Percentage-wise break up of students in terms of specialisation in BTech

**TOTAL NUMBER OF STUDENTS = 6700**
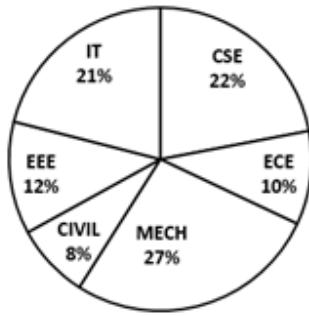


What is the total number of students having specialisation in CSE, ECE and CIVIL?

**Ans** ✗ 1. 2480

✗ 2. 2860

✗ 3. 2840

✓ 4. 2680

**Q.39** The price of almonds is increased by 10%. By what percentage should the consumption be decreased so that the expenditure remains the same?

**Ans** ✗ 1. $8\frac{1}{11}\%$

✗ 2. $5\frac{3}{11}\%$

✗ 3. $10\frac{3}{11}\%$

✓ 4. $9\frac{1}{11}\%$

**Q.40** Simplify the given expression.

$$\frac{(3.254 \times 3.254 \times 3.254) - (0.746 \times 0.746 \times 0.746)}{(3.254 \times 3.254) + (0.746 \times 0.746) + (3.254 \times 0.746)}$$

**Ans** ✓ 1. 2.508

✗ 2. 4.508

✗ 3. 2.146

✗ 4. 3.156

**Q.41** In a triangle ABC, if $\angle B = 90^0$, $\angle C = 45^0$ and AC = 4 cm, then the value of BC is:

**Ans** ✗ 1. 4 cm

✓ 2. $2\sqrt{2}$ cm

✗ 3. $4\sqrt{2}$ cm

✗ 4. $\sqrt{2}$ cm

**Q.42** The following table shows the percentage population of four towns below poverty line and the proportion of males and females:

| Town | Percentage of population below poverty line | Below poverty line | Above poverty line |
| --- | --- | --- | --- |
| | | Male : Female | Male : Female |
| A | 10 | 1 : 3 | 3 : 2 |
| B | 15 | 3 : 4 | 1 : 2 |
| C | 20 | 2 : 3 | 5 : 3 |
| D | 25 | 4 : 5 | 5 : 4 |

If the total population of town C is 8000 then what is the number of females above the poverty line in state C?

**Ans**   ✗ 1. 2600

✔ 2. 2400

✗ 3. 2200

✗ 4. 2000

---

**Q.43** The price of a land passing through three hands rises on the whole by 65%. The first and second sellers earned 20% and 25% profit, respectively. Find the profit percentage earned by the third seller.

**Ans**   ✗ 1. 15%

✗ 2. 20%

✔ 3. 10%

✗ 4. 25%

---

**Q.44** The heights of two cones are in the ratio 7:5 and their diameters are in the ratio 10:21. What is the ratio of their volumes? (Where $\pi = \frac{22}{7}$)

**Ans**   ✗ 1. 17:21

✗ 2. 14:19

✔ 3. 20:63

✗ 4. 26:47

---

**Q.45** Find the area of a triangle whose length of two sides are 4 cm and 5 cm and the angle between them is 45°.

**Ans**   ✗ 1. $7\sqrt{2}$ cm²

✗ 2. $4\sqrt{2}$ cm²

✗ 3. $6\sqrt{2}$ cm²

✔ 4. $5\sqrt{2}$ cm²

---

**Q.46** The time taken to travel the same distance by three cars is in the ratio of 12:15:10. What is the ratio of the speeds of the three cars?

**Ans**   ✗ 1. 4 : 5 : 6

✔ 2. 5 : 4 : 6

✗ 3. 5 : 6 : 4

✗ 4. 4 : 6 : 5

**Q.47** What is the difference between a single discount of 35% on ₹700 and two successive discounts of 18% and 12% on the same amount (correct to two places of decimals)?

**Ans**
- ✅ 1. ₹50.12
- ❌ 2. ₹52.10
- ❌ 3. ₹51.20
- ❌ 4. ₹49.80

**Q.48** Let ABC, PQR be two congruent triangles such that ∠A = ∠P = 90 °. If BC = 17 cm, PR = 8 cm, find AB (in cm).

**Ans**
- ❌ 1. 9
- ❌ 2. 14
- ❌ 3. 12
- ✅ 4. 15

**Q.49** A person has three iron bars whose lengths are 20, 30 and 40 metres, respectively. He wants to cut pieces of the same length from each of the three bars. What is the least number of total pieces if he cuts without any wastage?

**Ans**
- ✅ 1. 9
- ❌ 2. 10
- ❌ 3. 8
- ❌ 4. 11

**Q.50** The LCM of two numbers is 660 and their HCF is 5. If one of the numbers is 55, find the other.

**Ans**
- ❌ 1. 12
- ❌ 2. 275
- ❌ 3. 110
- ✅ 4. 60

**Q.1** Select the most appropriate meaning of the given idiom.

**Part and parcel**

**Ans**
- ❌ 1. Agreement with someone
- ❌ 2. Passing blame to someone else
- ✅ 3. Basic or essential element
- ❌ 4. A payment system for parcels

**Q.2** The following sentence has been split into four segments. Identify the segment that contains a grammatical error.
Mr. Khanna and family / have visit / Manali during / the summer vacation.

**Ans**
- ❌ 1. Manali during
- ❌ 2. the summer vacation.
- ❌ 3. Mr. Khanna and family
- ✅ 4. have visit

**Q.3** Some words in the following sentence have been underlined and given as options. Select the option that contains a spelling error.
Roshni does a <u>fabulouous</u> job at her <u>company</u> and has been <u>offered</u> a <u>promotion</u>.

**Ans**
- ❌ 1. company
- ✅ 2. fabulouous
- ❌ 3. offered
- ❌ 4. promotion

**Q.4** Select the most appropriate ANTONYM of the given word.

**Inquisitive**

Ans ✗ 1. Careful

✗ 2. Dull

✔ 3. Uninterested

✗ 4. Indolent

**Q.5** Identify from the given options the word most similar in meaning to the underlined word according to its meaning in the following sentence.
**He is a person who holds old fashioned opinions.**

Ans ✔ 1. obsolete

✗ 2. antique

✗ 3. ancient

✗ 4. senior citizen

**Q.6** Select the most appropriate idiom to fill in the blank.

**There are others waiting to grab an opportunity; if you don't act fast, you are going to _____.**

Ans ✗ 1. push the boat out

✗ 2. be in the same boat

✔ 3. miss the boat

✗ 4. a full boat

**Q.7** Select the most appropriate ANTONYM of the given word.

**Apex**

Ans ✗ 1. Farthest

✔ 2. Bottom

✗ 3. Pinnacle

✗ 4. Watchful

**Q.8** Select the most appropriate meaning of the underlined idiom.
**The office management was in dire straits after the financial crash.**

Ans ✗ 1. Being direct or fair

✗ 2. To be extremely happy

✔ 3. In a very bad situation

✗ 4. To walk on already trodden paths

**Q.9** Select the option that can be used as a one-word substitute for the given group of words.
**A disease prevalent in a community or a specific region at a specific time, affecting a large area.**

Ans ✗ 1. Eradicate

✔ 2. Epidemic

✗ 3. Pandemic

✗ 4. Endemic

**Q.10** Select the option that can be used as a one-word substitute for the underlined words.

He was <u>not willing</u> to attend the technical session of the conference.

**Ans** ✗ 1. comprehensive

✓ 2. reluctant

✗ 3. dejecting

✗ 4. curious

**Q.11** Choose the idiom that can best substitute the underlined part of the given sentence.

Shelley <u>ignored</u> her father's wish of studying arts and instead took admission in commerce.

**Ans** ✗ 1. Beyond the pale

✓ 2. Bid defiance to

✗ 3. Blew over

✗ 4. Big fish

**Q.12** The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

There was no other book / in the English language / which is as interesting as this one.

**Ans** ✗ 1. No error

✗ 2. which is as interesting as this one

✓ 3. There was no other book

✗ 4. in the English language

**Q.13** Select the most appropriate synonym of the given word.

Aggravate

**Ans** ✗ 1. Enhance

✗ 2. Mitigate

✗ 3. Satisfy

✓ 4. Annoy

**Q.14** Select the most appropriate ANTONYM of the given word.
Transparent

**Ans** ✓ 1. Opaque

✗ 2. Oppress

✗ 3. Linger

✗ 4. Crossover

**Q.15** The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

I have never / come to / such a kind person / like my friend.

**Ans** ✗ 1. such a kind person

✓ 2. come to

✗ 3. like my friend

✗ 4. I have never

**Q.16** Select the correct spelling for the INCORRECTLY spelt word in the given sentence.

The Eustachian tube and vestubular complex in the middle and inner ear, respectively, have an important role to play.

**Ans** ✗ 1. respictevely

✗ 2. importent

✗ 3. midle

✓ 4. vestibular

---

**Q.17** Select the option that can be used as a one-word substitute for the given group of words.

To have a strong emotional effect on.

**Ans** ✓ 1. To overwhelm

✗ 2. To yield

✗ 3. To smother

✗ 4. To forfeit

---

**Q.18** Select the INCORRECTLY spelt word.

**Ans** ✓ 1. Councel

✗ 2. Puzzled

✗ 3. Nasal

✗ 4. Embezzlement

---

**Q.19** Select the most appropriate ANTONYM of the given word.

Abhor

**Ans** ✗ 1. Despise

✗ 2. Occupy

✓ 3. Love

✗ 4. Danger

---

**Q.20** Select the INCORRECTLY spelt word from the underlined words in the following sentence.
Communities must build their resileince, including adopting appropriate technologies while making the most of traditional knowledge, and diversifying their livelihoods to cope with current and future climate stress.

**Ans** ✗ 1. appropriate

✗ 2. livelihoods

✗ 3. diversifying

✓ 4. resileince

---

**Q.21** Select the option that can be used as a one-word substitute for the given group of words.

Very attractive and easy to feel love for

**Ans** ✓ 1. Adorable

✗ 2. Flamboyant

✗ 3. Laudable

✗ 4. Mysterious

**Q.22** The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

The university has putting off / the semester examination / for the second time now / due to technical issues.

**Ans** ✗ 1. the semester examination

✓ 2. The university has putting off

✗ 3. for the second time now

✗ 4. due to technical issues

**Q.23** Select the most appropriate option that can substitute the underlined words in the given sentence.

Kiran's teacher was <u>doubtful on</u> her success.

**Ans** ✗ 1. doubtful beyond

✓ 2. doubtful of

✗ 3. doubtful in

✗ 4. doubtful off

**Q.24** Select the most appropriate meaning of the underlined word.
Ram was <u>abandoned</u> by his parents at a very early age.

**Ans** ✗ 1. Disgraced

✗ 2. Loved

✗ 3. Hated

✓ 4. Left

**Q.25** Select the option that can be used as a one-word substitute for the given group of words.

Lasting for a very short time

**Ans** ✓ 1. Ephemeral

✗ 2. Eternal

✗ 3. Chronology

✗ 4. Blasphemy

**Q.26** Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.
Harry is the one sitting <u>on</u> the corner.

**Ans** ✓ 1. in

✗ 2. No substitution required

✗ 3. onto

✗ 4. upon

**Q.27** Select the most appropriate meaning of the underlined word.
He uses one of the finest <u>ingredients</u> in his cooking.

**Ans** ✗ 1. Mixtures

✗ 2. Preparations

✓ 3. Components

✗ 4. Culinary

**Q.28** Select the most appropriate idiom for the given situation.

He started with an online company and became a millionaire. Then, he sold it and invested in the share market and earned more money. Now, he has invested in the transportation industry and is generating huge wealth. What does he have?

Ans ✗ 1. Sticky fingers

✗ 2. As genuine as a three-dollar bill

✗ 3. Rule of thumb

✓ 4. Midas touch

**Q.29** Select the INCORRECTLY spelt word.

Ans ✗ 1. Waitress

✗ 2. Agreeable

✗ 3. Formulae

✓ 4. Ocassion

**Q.30** Select the correct option to substitute the underlined segment in the given sentence. If no substitution is required, select 'No substitution'.

Her smile is similar to her mother.

Ans ✗ 1. No substitution

✗ 2. mother

✗ 3. the mother

✓ 4. her mother's

**Q.31** Select the most appropriate ANTONYM of the given word.

Bombastic

Ans ✗ 1. Sarcastic

✗ 2. Essential

✓ 3. Plain

✗ 4. Rhythmic

**Q.32** Select the option that can be used as a one-word substitute for the given group of words.

An animal or a person that eats all types of food, especially plants and meat

Ans ✗ 1. Vegetarian

✓ 2. Omnivore

✗ 3. Herbivore

✗ 4. Carnivore

**Q.33** Select the most appropriate option that can substitute the underlined word in the given sentence.

The Board of Film Analysts vituperated the novice Indonesian film-maker and cancelled its nomination for the 'Golden Globe Award'.

Ans ✗ 1. dealt in a delicate and polite manner

✗ 2. recognised and praised the talent of

✓ 3. censured with harsh and abusive language

✗ 4. lamented the untimely death of

**Q.34** Select the most appropriate synonym of the given word.

**Robe**

Ans   ✗ 1. Mishap

✓ 2. Cloak

✗ 3. Robbery

✗ 4. Success

**Q.35** Select the most appropriate meaning of the given idiom.
**A snowball effect**

Ans   ✗ 1. Cold and uncomfortable

✗ 2. Slow movement

✗ 3. Trick someone completely

✓ 4. An accelerating growth of magnitude

**Q.36** Parts of the following sentence have been given as options. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.
**Anant was telling a story about his most recent exploits when a tree branch break the living room window.**

Ans   ✓ 1. when a tree branch break the living room window

✗ 2. No error

✗ 3. about his most recent exploits

✗ 4. Anant was telling a story

**Q.37** Choose the most appropriate meaning of the underlined phrase.
**What we need is skilled and energetic planning and <u>elbow grease</u>.**

Ans   ✓ 1. Hard work that one puts into doing something

✗ 2. Hard work that one puts into cleaning one's elbow

✗ 3. The grease that is earned through labour

✗ 4. Hard work that one puts into removing grease

**Q.38** Select the most appropriate idiom to substitute the underlined segment in the given sentence.
**My final round of Spell Bee Competition is coming up and to win this event, I need to <u>study hard</u> from today.**

Ans   ✗ 1. pour my heart out

✗ 2. burn the books

✗ 3. cut to the chase

✓ 4. hit the books

**Q.39** Select the most appropriate idiom that can substitute the underlined segment in the given sentence.
**Do you believe that you <u>have a possibility</u> of getting that job?**

Ans   ✗ 1. shoot the breeze

✗ 2. snow job

✗ 3. spill the beans

✓ 4. stand a chance

**Q.40** Select the most appropriate meaning of the given idiom.

**Get your act together**

Ans   ✓ 1. To organise yourself so that you can do something properly

✗ 2. To ruin one's plans

✗ 3. To understand something complicated

✗ 4. To get the conversation going

**Comprehension:**

In the following passage some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Among the largest species of cats in the world, tigers are powerful hunters with (1)_____ teeth, strong jaws and agile bodies. They range across Asia from Russia all the way to Sumatra and mainland Southeast Asia. Researchers still have much to learn (2) _____ these beautiful, endangered (3) _____.
There is currently one recognized species of tiger, Panthera tigris. Scientists have further (4) _____ the tiger into nine subspecies: the extinct Bali, Caspian and Javan subspecies, and the living Malayan, Sumatran, South China, Indochinese, Bengal and Amur (or Siberian) subspecies. Of these six subspecies, AZA-accredited zoos currently manage three: Amur, Malayan, and Sumatran. The Smithsonian's National Zoo and Conservation Biology Institute is home to Sumatran and Amur tigers; Sumatran tigers are (5) _____ as Critically Endangered on the International Union for Conservation of Nature's Red List, and Amur tigers have been classified as Endangered.

**SubQuestion No : 41**

**Q.41** **Select the most appropriate option to fill blank number 1.**

**Ans** ✗ 1. Long

✗ 2. Small

✔ 3. Sharp

✗ 4. Blunt

---

**Comprehension:**

In the following passage some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Among the largest species of cats in the world, tigers are powerful hunters with (1)_____ teeth, strong jaws and agile bodies. They range across Asia from Russia all the way to Sumatra and mainland Southeast Asia. Researchers still have much to learn (2) _____ these beautiful, endangered (3) _____.
There is currently one recognized species of tiger, Panthera tigris. Scientists have further (4) _____ the tiger into nine subspecies: the extinct Bali, Caspian and Javan subspecies, and the living Malayan, Sumatran, South China, Indochinese, Bengal and Amur (or Siberian) subspecies. Of these six subspecies, AZA-accredited zoos currently manage three: Amur, Malayan, and Sumatran. The Smithsonian's National Zoo and Conservation Biology Institute is home to Sumatran and Amur tigers; Sumatran tigers are (5) _____ as Critically Endangered on the International Union for Conservation of Nature's Red List, and Amur tigers have been classified as Endangered.

**SubQuestion No : 42**

**Q.42** **Select the most appropriate option to fill blank number 2.**

**Ans** ✔ 1. About

✗ 2. With

✗ 3. Into

✗ 4. Along

---

**Comprehension:**

In the following passage some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Among the largest species of cats in the world, tigers are powerful hunters with (1)_____ teeth, strong jaws and agile bodies. They range across Asia from Russia all the way to Sumatra and mainland Southeast Asia. Researchers still have much to learn (2) _____ these beautiful, endangered (3) _____.
There is currently one recognized species of tiger, Panthera tigris. Scientists have further (4) _____ the tiger into nine subspecies: the extinct Bali, Caspian and Javan subspecies, and the living Malayan, Sumatran, South China, Indochinese, Bengal and Amur (or Siberian) subspecies. Of these six subspecies, AZA-accredited zoos currently manage three: Amur, Malayan, and Sumatran. The Smithsonian's National Zoo and Conservation Biology Institute is home to Sumatran and Amur tigers; Sumatran tigers are (5) _____ as Critically Endangered on the International Union for Conservation of Nature's Red List, and Amur tigers have been classified as Endangered.

**SubQuestion No : 43**

**Q.43** **Select the most appropriate option to fill blank number 3.**

**Ans** ✗ 1. Dogs

✗ 2. Rabbits

✗ 3. Elephants

✔ 4. Cats

**Comprehension:**

In the following passage some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Among the largest species of cats in the world, tigers are powerful hunters with (1)_____ teeth, strong jaws and agile bodies. They range across Asia from Russia all the way to Sumatra and mainland Southeast Asia. Researchers still have much to learn (2) _____ these beautiful, endangered (3) _____.
There is currently one recognized species of tiger, Panthera tigris. Scientists have further (4) _____ the tiger into nine subspecies: the extinct Bali, Caspian and Javan subspecies, and the living Malayan, Sumatran, South China, Indochinese, Bengal and Amur (or Siberian) subspecies. Of these six subspecies, AZA-accredited zoos currently manage three: Amur, Malayan, and Sumatran. The Smithsonian's National Zoo and Conservation Biology Institute is home to Sumatran and Amur tigers; Sumatran tigers are (5) _____ as Critically Endangered on the International Union for Conservation of Nature's Red List, and Amur tigers have been classified as Endangered.

**SubQuestion No : 44**

**Q.44**  **Select the most appropriate option to fill blank number 4.**

**Ans**   ✗ 1. Declared

   ✗ 2. Restricted

   ✔ 3. Classified

   ✗ 4. Generalized

---

**Comprehension:**

In the following passage some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Among the largest species of cats in the world, tigers are powerful hunters with (1)_____ teeth, strong jaws and agile bodies. They range across Asia from Russia all the way to Sumatra and mainland Southeast Asia. Researchers still have much to learn (2) _____ these beautiful, endangered (3) _____.
There is currently one recognized species of tiger, Panthera tigris. Scientists have further (4) _____ the tiger into nine subspecies: the extinct Bali, Caspian and Javan subspecies, and the living Malayan, Sumatran, South China, Indochinese, Bengal and Amur (or Siberian) subspecies. Of these six subspecies, AZA-accredited zoos currently manage three: Amur, Malayan, and Sumatran. The Smithsonian's National Zoo and Conservation Biology Institute is home to Sumatran and Amur tigers; Sumatran tigers are (5) _____ as Critically Endangered on the International Union for Conservation of Nature's Red List, and Amur tigers have been classified as Endangered.

**SubQuestion No : 45**

**Q.45**  **Select the most appropriate option to fill blank number 5.**

**Ans**   ✗ 1. Detailed

   ✗ 2. Recorded

   ✔ 3. Listed

   ✗ 4. Numerated

---

**Comprehension:**

Read the given passage and answer the questions that follow.

What if globally designed products could radically change how we work, produce and consume? Several examples across continents show the way we are producing and consuming goods could be improved by relying on globally shared digital resources, such as design, knowledge and software.
Imagine a prosthetic hand designed by geographically dispersed communities of scientists, designers and enthusiasts in a collaborative manner via the web. All knowledge and software related to the hand is shared globally as a digital commons. People from all over the world who are connected online and have access to local manufacturing machines (from 3D printing and CNC machines to low-tech crafts and tools) can, ideally with the help of an expert, manufacture a customised hand. This is the case of the Open Bionics project, which produces designs for robotic and bionic devices.
There are no patent costs to pay for. Less transportation of materials is needed, since a considerable part of the manufacturing takes place locally; maintenance is easier, products are designed to last as long as possible, and costs are thus much lower.

**SubQuestion No : 46**

**Q.46**  **Select the most suitable word from the passage which means 'scattered'.**

**Ans**   ✗ 1. Shared

   ✗ 2. Collaborative

   ✔ 3. Dispersed

   ✗ 4. Customised

**Comprehension:**

Read the given passage and answer the questions that follow.

What if globally designed products could radically change how we work, produce and consume? Several examples across continents show the way we are producing and consuming goods could be improved by relying on globally shared digital resources, such as design, knowledge and software.

Imagine a prosthetic hand designed by geographically dispersed communities of scientists, designers and enthusiasts in a collaborative manner via the web. All knowledge and software related to the hand is shared globally as a digital commons. People from all over the world who are connected online and have access to local manufacturing machines (from 3D printing and CNC machines to low-tech crafts and tools) can, ideally with the help of an expert, manufacture a customised hand. This is the case of the Open Bionics project, which produces designs for robotic and bionic devices.

There are no patent costs to pay for. Less transportation of materials is needed, since a considerable part of the manufacturing takes place locally; maintenance is easier, products are designed to last as long as possible, and costs are thus much lower.

**SubQuestion No : 47**

**Q.47** **What is the term used in the passage for globally shared digital things?**

**Ans** ✗ 1. Digital world

✗ 2. Digital information

✓ 3. Digital commons

✗ 4. Digital resources

---

**Comprehension:**

Read the given passage and answer the questions that follow.

What if globally designed products could radically change how we work, produce and consume? Several examples across continents show the way we are producing and consuming goods could be improved by relying on globally shared digital resources, such as design, knowledge and software.

Imagine a prosthetic hand designed by geographically dispersed communities of scientists, designers and enthusiasts in a collaborative manner via the web. All knowledge and software related to the hand is shared globally as a digital commons. People from all over the world who are connected online and have access to local manufacturing machines (from 3D printing and CNC machines to low-tech crafts and tools) can, ideally with the help of an expert, manufacture a customised hand. This is the case of the Open Bionics project, which produces designs for robotic and bionic devices.

There are no patent costs to pay for. Less transportation of materials is needed, since a considerable part of the manufacturing takes place locally; maintenance is easier, products are designed to last as long as possible, and costs are thus much lower.

**SubQuestion No : 48**

**Q.48** **Which of the following is NOT a globally shared digital resource?**

**Ans** ✗ 1. Knowledge

✗ 2. Software

✗ 3. Design

✓ 4. Automobile

---

**Comprehension:**

Read the given passage and answer the questions that follow.

What if globally designed products could radically change how we work, produce and consume? Several examples across continents show the way we are producing and consuming goods could be improved by relying on globally shared digital resources, such as design, knowledge and software.

Imagine a prosthetic hand designed by geographically dispersed communities of scientists, designers and enthusiasts in a collaborative manner via the web. All knowledge and software related to the hand is shared globally as a digital commons. People from all over the world who are connected online and have access to local manufacturing machines (from 3D printing and CNC machines to low-tech crafts and tools) can, ideally with the help of an expert, manufacture a customised hand. This is the case of the Open Bionics project, which produces designs for robotic and bionic devices.

There are no patent costs to pay for. Less transportation of materials is needed, since a considerable part of the manufacturing takes place locally; maintenance is easier, products are designed to last as long as possible, and costs are thus much lower.

**SubQuestion No : 49**

**Q.49** **Identify the most suitable title for the given passage.**

**Ans** ✗ 1. Shared Information

✗ 2. Customised Hand

✓ 3. Digital Globalisation

✗ 4. Knowledge Explosion

**Comprehension:**

Read the given passage and answer the questions that follow.

What if globally designed products could radically change how we work, produce and consume? Several examples across continents show the way we are producing and consuming goods could be improved by relying on globally shared digital resources, such as design, knowledge and software.

Imagine a prosthetic hand designed by geographically dispersed communities of scientists, designers and enthusiasts in a collaborative manner via the web. All knowledge and software related to the hand is shared globally as a digital commons. People from all over the world who are connected online and have access to local manufacturing machines (from 3D printing and CNC machines to low-tech crafts and tools) can, ideally with the help of an expert, manufacture a customised hand. This is the case of the Open Bionics project, which produces designs for robotic and bionic devices.

There are no patent costs to pay for. Less transportation of materials is needed, since a considerable part of the manufacturing takes place locally; maintenance is easier, products are designed to last as long as possible, and costs are thus much lower.

**SubQuestion No : 50**

**Q.50  What is the tone of the author?**

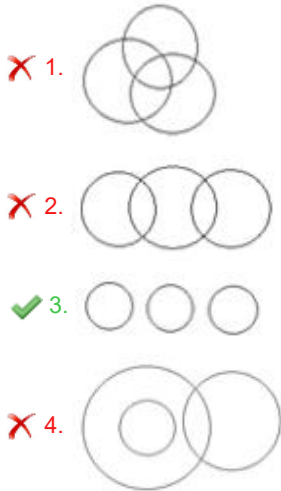**Ans**     ✔ 1. Speculative

  ✘ 2. Belligerent

  ✘ 3. Caustic

  ✘ 4. Acerbic

Q.1 Select the Venn diagram that best illustrates the relationship between the following classes.

Spoon, Soup, Rice

Ans

✗ 1.

✗ 2.

✔ 3.

✗ 4.

Q.2 Select the option that represents the letters that, when sequentially placed from left to right in the blanks below, will complete the letter series.
P _ _ O N _ L B _ N P L _ O _ P L _ _ N

Ans ✗ 1. L B P B O N B O

✗ 2. L P B O B N N O

✗ 3. L B P O B B N O

✔ 4. L B P O B N B O

Q.3 Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.

1. Stoop
2. Stoke
3. Storage
4. Stock
5. Storey
6. Stomach

Ans ✗ 1. 2, 4, 6, 1, 3, 5

✗ 2. 2, 4, 6, 3, 1, 5

✗ 3. 4, 2, 6, 3, 1, 5

✔ 4. 4, 2, 6, 1, 3, 5

Q.4 Select the set in which the numbers are related in the same way as are the numbers of the following set.

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)

(1, 16 , 3)
(21, 529, 2)

Ans ✗ 1. (7, 364, 12)

✔ 2. (8, 100, 2)

✗ 3. (11, 429, 2)

✗ 4. (5, 189, 8)

**Q.5** If the given sheet is folded to form a cube, which of the following figures is possible?

```
          ┌────┐
          │ 20 │
     ┌────┼────┼────┬────┐
     │ 15 │ 16 │ 19 │ 17 │
     └────┴────┼────┴────┘
               │ 18 │
               └────┘
```

**Ans**

✗ 1.  (cube showing 16 top, 15 front-left, 17 front-right)
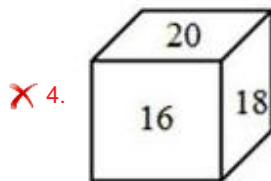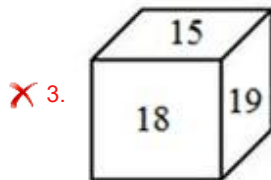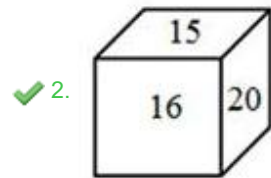
✔ 2.  (cube showing 15 top, 16 front-left, 20 front-right)

✗ 3.  (cube showing 15 top, 18 front-left, 19 front-right)

✗ 4.  (cube showing 20 top, 16 front-left, 18 front-right)

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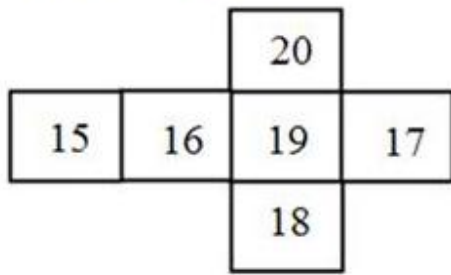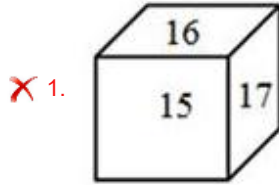
**Q.6** In a certain code language, "GBTA" is coded as "24" and "ZWQVI" is coded as "30". How will "DLUCPR" be coded in that language?

**Ans**
✗ 1. 24

✔ 2. 36

✗ 3. 28

✗ 4. 30

---

**Q.7** X, from his house, ran 200 steps towards the east and then ran 30 steps after turning to his right to reach a monastery. He then ran 30 steps towards his right and reached a point W. He then turned again towards his right and ran 30 steps. From there, turning towards his right he ran 130 steps. He then turned towards his left and ran 10 steps to reach a bakery. In which direction is the bakery with respect to X's house?

**Ans**
✗ 1. East

✔ 2. North-East

✗ 3. North

✗ 4. South-East

**Q.8** If A denotes '+', B denotes '×', C denotes '−', and D denotes '÷', then what will be the value of the following equation?
16 B 5 A 112 D 8 C 32 = ?

**Ans**
✗ 1. 72

✗ 2. 65

✔ 3. 62

✗ 4. 57

**Q.9** If '+' means 'divided by', '−' means 'added to', '×' means 'subtracted from' and '÷' means 'multiplied by', then what will be the value of the following expression?

[{(23 × 15) - (2 ÷ 2)} + (2 - 4)] ÷ 2

**Ans**
✗ 1. 8

✗ 2. 2

✗ 3. 6

✔ 4. 4

**Q.10** Which of the following numbers will replace the question mark (?) in the given series?

3, 5, 7, 12, 37, 69, 357, ?

**Ans**
✔ 1. 656

✗ 2. 645

✗ 3. 665

✗ 4. 654

**Q.11** Seven students A, B, C, D, E, F and G are sitting around a circular table facing the centre. C is an immediate neighbour of both E and F. D is sitting third to the left of C and to the immediate right of A. A is sitting second to the right of E. B is an immediate neighbour of both E and A. G is to the immediate left of F. Who is the immediate neigbour of both C and G?

**Ans**
✔ 1. F

✗ 2. A

✗ 3. E

✗ 4. D

**Q.12** A paper is folded and cut as shown below. How will it appear when unfolded?

**Ans**

1. ✔
```
●       ●
X  □ □  X
X  □ □  X
●       ●
```

2. ✘
```
X       X
●  □ □  ●
●  □ □  ●
X       X
```

3. ✘
```
●       ●
X  □ □  X
●       ●
```

4. ✘
```
●       ●
X  □ □  X
●  □ □  ●
X       X
```
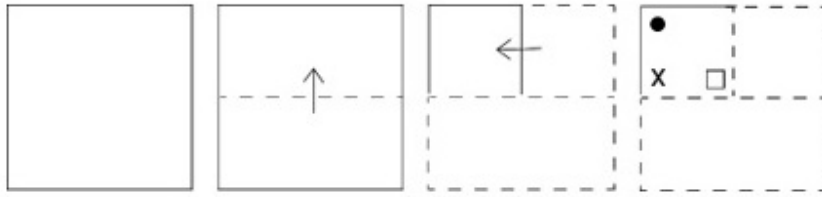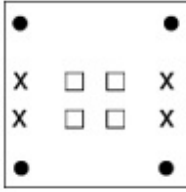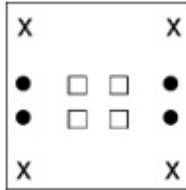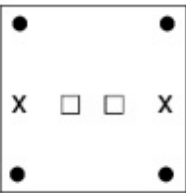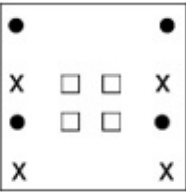
**Q.13** Select a suitable figure from the answer figures which would replace the question mark (?).
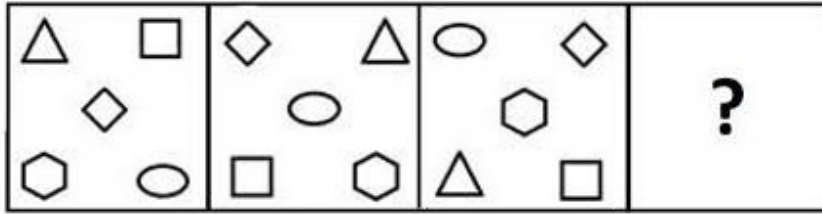


**Ans**



✔ 1.
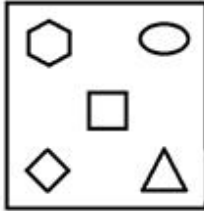
✘ 2.
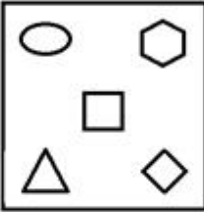
✘ 3.
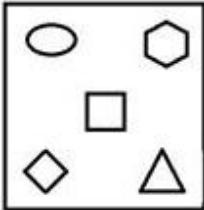
✘ 4.
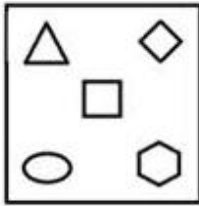
**Q.14** Which of the following numbers will replace the question mark (?) in the given series?
261, 232, 203, ?, 145, 116

**Ans** ✔ 1. 174

✘ 2. 192

✘ 3. 186

✘ 4. 188

**Q.15** Select the option that represents the letters that, when placed from left to right in the blanks below, will complete the letter series.

P _ R R _ P Q _ _ S _ Q R _ S P _ R R S

**Ans** ✔ 1. Q S R R P R Q

✘ 2. S Q Q R R P Q

✘ 3. S Q R R Q P R

✘ 4. R Q P Q R S Q

**Q.16** Which of the following numbers will replace the question mark (?) in the given series?

38, 57, 40, 59, 42, ?

Ans ✗ 1. 60

✗ 2. 59

✓ 3. 61

✗ 4. 62

**Q.17** Select the option that represents the correct order of the given words as they would appear in an English dictionary?
1.Puritan
2.Purpose
3.Purge
4.Purgatory
5.Purify

Ans ✗ 1. 4, 5, 3, 1, 2

✗ 2. 5, 4, 3, 1, 2

✗ 3. 3, 4, 5, 1, 2

✓ 4. 4, 3, 5, 1, 2

**Q.18** Select the figure from among the given options that can replace the question mark (?) in the following series.
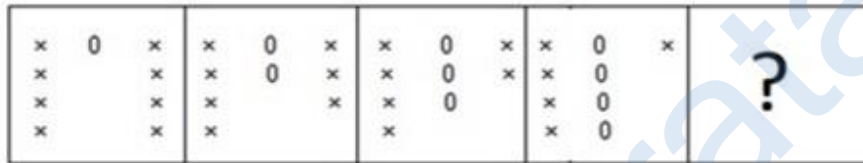


Ans



✗ 1.

✓ 2.

✗ 3.

✗ 4.

**Q.19** Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the odd letter-cluster.

Ans ✓ 1. NJPM

✗ 2. LHMK

✗ 3. VRWU

✗ 4. EAFD

**Q.20** Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

Whale : Mammal :: Crocodile : ?

**Ans** ✗ 1. Rodent

✗ 2. Amphibian

✓ 3. Reptile

✗ 4. Sea

**Q.21** Three Statements are given followed by Three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:
All plains are mountains.
No sea is a mountain.
Some valleys are seas.

Conclusions:
I. Some valleys are plains.
II. No valley is a mountain.
III. No sea is a plain.

**Ans** ✓ 1. Only conclusion III follows.

✗ 2. Only conclusion II follows.

✗ 3. Both conclusions I and II follow.

✗ 4. Only conclusion I follows.

**Q.22** Two statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.
Statements:
All kids are small.
Some funny are kids.
Conclusions:
I) Some funny are small.
II) Some small are kids.

**Ans** ✓ 1. Both Conclusions I and II follow.

✗ 2. Only Conclusion I follows

✗ 3. Neither Conclusion I nor II follows.

✗ 4. Only Conclusion II follows.

**Q.23** Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

Alas : woe :: Beauty : ?

**Ans** ✗ 1. Crudeness

✓ 2. Charm

✗ 3. Expunge

✗ 4. Inelegance

**Q.24** If '+' means '–', '–' means '×', '×' means '÷', '÷' means '+', then what will come in place of the question mark (?) in the following equation?
$14 - 7 \div 42 \times 6 + 33 = ?$

**Ans** ✓ 1. 72

✗ 2. 84

✗ 3. 56

✗ 4. 68

**Q.25** Select the option that is related to the fourth term in the same way as the first term is related to the second term and the fifth term is related to the sixth term.

2 : 26 :: ? : 152 :: 27 : 1026

**Ans**   ✔ 1. 8

✗ 2. 6

✗ 3. 13

✗ 4. 24

---

**Q.26** Which of the following terms will replace the question mark (?) in the given series?

LDEA   NGIF   ?     RMQP   TPUU

**Ans**   ✔ 1. PJMK

✗ 2. PIMK

✗ 3. PMIK

✗ 4. PMJK

---

**Q.27** The sequence of folding a piece of paper and the manner in which the folded paper is cut is shown in the following figures. How would this paper look when unfolded?
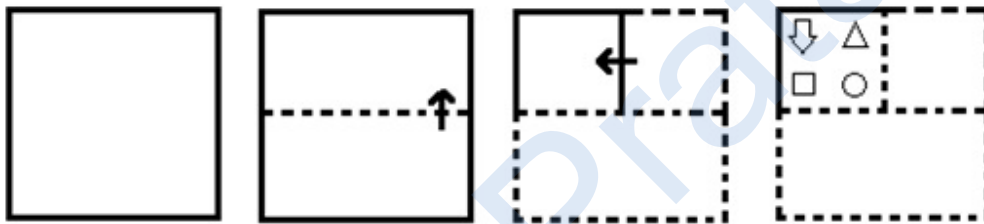


**Ans**

✗ 1.


✗ 2.


✗ 3.


✔ 4.

**Q.28** If '+' means '−', '−' means '×', '×' means '÷' and '÷' means '+', what will come in place of '?' in the following equation?
121 × 11 ÷ 28 - 3 + 46 = ?

**Ans**   ✗ 1. 65

✓ 2. 49

✗ 3. 43

✗ 4. 71

---

**Q.29** If '+' means '−' , '−' means 'x' , 'x' means '÷' and '÷' means '+', then what will come in place of (?) in the given equation?
30 + 5 − 2 x 10 ÷ 2 = ?

**Ans**   ✗ 1. 50

✗ 2. 60

✓ 3. 31

✗ 4. 80

---

**Q.30** Select the figure that will replace the question mark (?) in the following figure series.
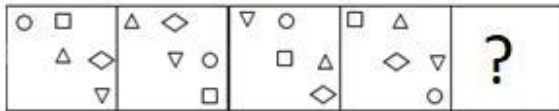


**Ans**

✗ 1. 

✗ 2. 

✓ 3. 

✗ 4. 

---

**Q.31** In this question, three statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follows/follow from the statements.
**Statements:**
I. Some rooms are cages.
II. Some cages are enclosures.
III. All enclosures are houses.
**Conclusions:**
I. Some houses are cages.
II. All rooms are enclosures.

**Ans**   ✓ 1. Only conclusion I follows

✗ 2. Both conclusions I and II follow

✗ 3. Neither conclusion I nor II follows

✗ 4. Only conclusion II follows

**Q.32** Select the option figure in which the given figure is embedded as its part (rotation is NOT allowed).



Ans

✗ 1. 

✗ 2. 
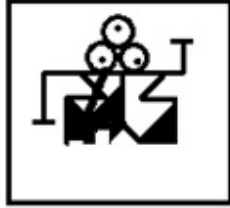
✗ 3. 

✔ 4. 

---
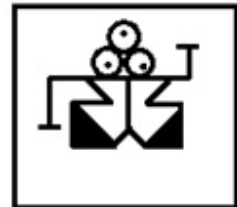
**Q.33** Two different positions of the same dice are shown, the six faces of which are numbered from 1 to 6. Select the number that will be on the face opposite to the one showing '4'.
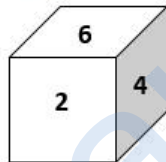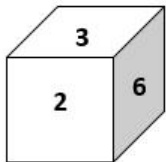


Ans

✗ 1. 6

✔ 2. 3

✗ 3. 5

✗ 4. 1

---

**Q.34** Six students Shree, Dayal, Sharda, Tripti, Shrishti and Manju are sitting around a circular table facing the centre (not necessarily in the same order). Shree is an immediate neighbour of both Dayal and Tripti. Manju is sitting second to the right of Dayal. Shrishti is an immediate neighbour of both Manju and Tripti.
Who is an immediate neighbour of Sharda?

Ans

✗ 1. Tripti

✔ 2. Dayal

✗ 3. Shrishti

✗ 4. Shree

**Q.35** In a certain code language, 'ACTION' is written as 'TXANLI' and 'DEBATE' is written as 'BVDEGA'. How will 'CHANGE' be written in that language?

**Ans**
  ✗ 1. BJDLER

  ✗ 2. HRPEIU

  ✗ 3. ATHFN

  ✓ 4. ASCETN

---

**Q.36** 'P $ Q' means 'P is the daughter of Q'
'P ? Q' means 'P is the son of Q'
'P * Q' means 'P is the sister of Q '
'P = Q' means 'P is the father of Q '
If 'D $ G * U ? F', how is G related to F?

**Ans**
  ✗ 1. Father's sister

  ✓ 2. Daughter

  ✗ 3. Brother

  ✗ 4. Mother's sister

---

**Q.37** Three of the following letter-clusters are alike in some manner and one is different. Select the one that is different.

**Ans**
  ✓ 1. WDXC

  ✗ 2. QLHE

  ✗ 3. DYUR

  ✗ 4. JEAX

---

**Q.38** Select the option that is related to the fourth term in the same way as the first term is related to the second term and the fifth term is related to the sixth term.
5 : 24 :: ? : 143 :: 4 : 15

**Ans**
  ✗ 1. 11

  ✗ 2. 8

  ✓ 3. 12

  ✗ 4. 7

---

**Q.39** A @ B means 'A is the husband of B'
A & B means 'A is the mother of B'
A # B means 'A is the daughter of B'
If L @ M & K @ J # P, then how is J related to L?

**Ans**
  ✗ 1. Daughter's husband

  ✓ 2. Son's wife

  ✗ 3. Mother

  ✗ 4. Son

---

**Q.40** In a certain code language, 'HORSE' is coded as 75 and 'MOVE' is coded as 63. How will 'RACE' be coded in that language?

**Ans**
  ✓ 1. 35

  ✗ 2. 46

  ✗ 3. 48

  ✗ 4. 32

**Q.41** Which two signs should be interchanged to make the given equation correct?

31 ÷ 48 × 7 – 322 + 23 = 353

**Ans** ✗ 1. ÷ and –

✗ 2. – and ×

✓ 3. ÷ and +

✗ 4. × and +

**Q.42** In a certain code language, 'HUSTLE' is written as 'SFHEOT' and 'BRIGHT' is written as 'IIBTSG'. How will 'TUNNEL' be written in that language?

**Ans** ✗ 1. NRTPEN

✓ 2. NFTLVN

✗ 3. RNLPED

✗ 4. NGTYPN

**Q.43** If the given sheet is folded to form a cube, which of the given figures are possible?

(The numbers are shown to indicate the sides only.)
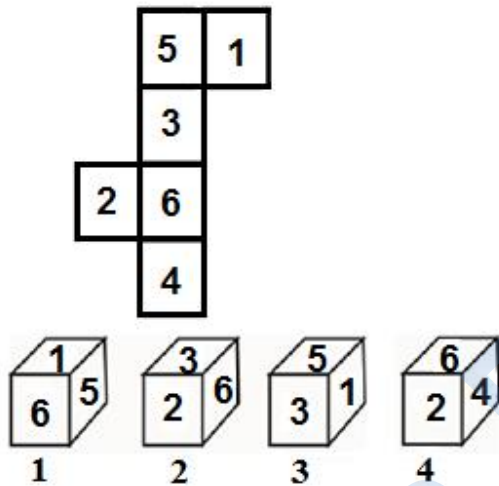


**Ans** ✗ 1. Only 2 and 3

✗ 2. All 1, 2, 3 and 4

✗ 3. Only 1, 2 and 3

✓ 4. Only 2, 3 and 4

**Q.44** Sona goes to a park every day for walking. One morning, she started walking from her home and walked 40 km towards the north. Then she turned to the right and walked 60 km. Again, she turned right and walked 40 km. Lastly, she took a left turn and walked 60 km. In which direction and how far is she from her home?

**Ans** ✗ 1. East, 90 km

✗ 2. West, 60 km

✓ 3. East, 120 km

✗ 4. West, 120 km

**Q.45** Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13- Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(13, 18, 21)
(11, 25, 8)

**Ans** ✓ 1. (14, 33, 9)

✗ 2. (6, 10, 12)

✗ 3. (4, 12, 24)

✗ 4. (8, 16, 23)

**Q.46** If '+' means '−', '−' means '×', '×' means '÷' and '÷' means '+', what will come in place of '?' in the following equation?
83 ÷ 12 - 65 × 13 + 47 = ?

**Ans** ✔ 1. 96

✘ 2. 108

✘ 3. 92

✘ 4. 79

---

**Q.47** In a certain code language, 'COACH' is coded as XAOHC and 'BERTH' is coded as WREHT. How will 'TRAIN' be coded in the same language?

**Ans** ✔ 1. OARNI

✘ 2. PARIN

✘ 3. ONIAR

✘ 4. PARNI

---

**Q.48** Select the option figure in which the given figure is embedded as its part (rotation is NOT allowed).
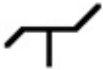
**Ans**

✘ 1. 

✔ 2. 

✘ 3. 

✘ 4. 

---

**Q.49** Which of the following numbers will replace the question mark (?) in the given series?
112, 129, 150, 175, 204, ?

**Ans** ✔ 1. 237

✘ 2. 245

✘ 3. 240

✘ 4. 234

**Q.50** A paper is folded and cut as shown below. How will it appear when unfolded?
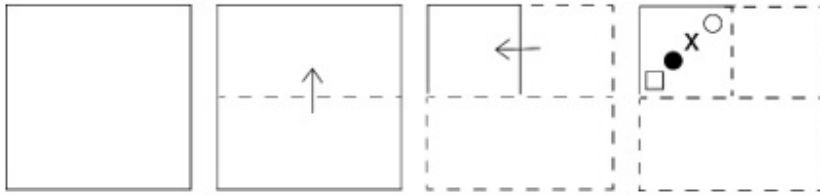
Ans



✗ 1.
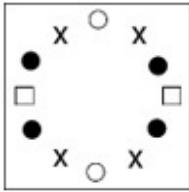
✓ 2.
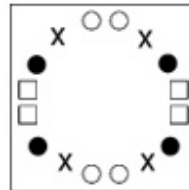
✗ 3.
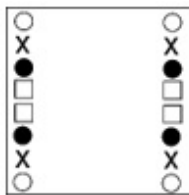
✗ 4.

---
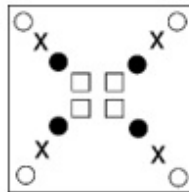
**Q.1** What is the chemical formula for the aldehyde group?

Ans

✗ 1. $-CH_2O$

✗ 2. $-COOH$

✗ 3. $-OH$

✓ 4. $-CHO$

---

**Q.2** The agricultural land below the main canal water level forms the _____.

Ans

✓ 1. command area

✗ 2. lift system

✗ 3. flow system

✗ 4. warebandi

---

**Q.3** As per Article 361 of the Constitution of India, who among the following shall NOT be answerable to any court for the exercise and performance of the powers and duties of his/her office?

Ans

✗ 1. Secretary

✗ 2. Chief Minister

✗ 3. Prime Minister

✓ 4. Governor

**Q.4** When was the first World Weightlifting Championship organized by the World Weightlifting Federation in London, UK?

**Ans**
✗ 1. March 1991

✓ 2. March 1891

✗ 3. March 2000

✗ 4. March 1895

**Q.5** Identify the pigment that gives blood its colour.

**Ans**
✓ 1. Haemoglobin

✗ 2. Xanthophyll

✗ 3. Ferritin

✗ 4. Chlorophyll

**Q.6** Chapchar Kut festival is predominantly celebrated in _____.

**Ans**
✗ 1. Nagaland

✗ 2. Meghalaya

✓ 3. Mizoram

✗ 4. Manipur

**Q.7** When did the first Five-Year Plan end?

**Ans**
✗ 1. December 1955

✗ 2. January 1956

✓ 3. March 1956

✗ 4. February 1956

**Q.8** Who was the eldest of four sons of Babur?

**Ans**
✗ 1. Askari

✓ 2. Humayun

✗ 3. Hindal

✗ 4. Kamran

**Q.9** Identify the group of major Jute producing states of India.

**Ans**
✗ 1. Rajasthan, Maharashtra, Karnataka, Gujarat

✓ 2. West Bengal, Bihar, Assam, Odisha

✗ 3. Kerala, Tamil Nadu, Telangana, Madhya Pradesh

✗ 4. Punjab, Haryana, Uttarakhand, Himachal Pradesh

**Q.10** Which Article of the Constitution of India prohibits forced labour?

**Ans**
✗ 1. Article 21

✓ 2. Article 23

✗ 3. Article 20

✗ 4. Article 22

**Q.11** Which of the following books has been written by the Booker Prize winner Kiran Desai?

**Ans**
✗ 1. Shantaram

✗ 2. A Fine Balance

✗ 3. The Year of Runaways

✓ 4. The Inheritance of Loss

**Q.12** The liability to pay the tax and the actual burden of which of the following taxes lie on two different persons?

**Ans**
✔ 1. Goods and Services Tax

✘ 2. Corporation Tax

✘ 3. Capital Gains Tax

✘ 4. Income Tax

**Q.13** Which of the following years was declared as the international year of micro credit by the UN?

**Ans**
✘ 1. 2002

✘ 2. 2004

✘ 3. 2008

✔ 4. 2005

**Q.14** Under the Regulating Act of 1773, the King-in-Council created a Supreme Court in which of the following places?

**Ans**
✘ 1. Madras

✘ 2. Bombay

✔ 3. Calcutta

✘ 4. Delhi

**Q.15** Padma Bhushan awardee Kumudini Lakhia is renowned for which of the following dance forms?

**Ans**
✘ 1. Bharatanatyam

✘ 2. Kuchipudi

✔ 3. Kathak

✘ 4. Odissi

**Q.16** According to the 2011 Census, any person aged _____ and above and has the ability to read and write is considered literate.

**Ans**
✘ 1. twelve

✘ 2. six

✔ 3. seven

✘ 4. ten

**Q.17** Who among the following was NOT associated with 'Prarthana Sabha'?

**Ans**
✘ 1. RG Bhandarkar

✘ 2. Govind Ranade

✔ 3. Motilal Nehru

✘ 4. Atmaram Pandurang

**Q.18** Which Manipuri dance expert founded Govindji Nartanalaya dance school for women in Imphal ?

**Ans**
✔ 1. Guru Bipin Singh

✘ 2. Guru Amubi

✘ 3. Rajkumar Singhajit Singh

✘ 4. Phanjoubam Iboton Singh

**Q.19** The Bishnu Rabha Award 2019 went to the noted _____ dance exponent Kumari Laitjonam Ebampisok Devi.

**Ans**
✘ 1. Odissi

✔ 2. Manipuri

✘ 3. Kuchipudi

✘ 4. Kathakali

**Q.20** Which of the following rights was deleted from the list of fundamental rights by the 44<sup>th</sup> Constitutional Amendment Act?

**Ans** ✗ 1. Right to freedom

✓ 2. Right to property

✗ 3. Right to equality

✗ 4. Right to freedom of religion

**Q.21** Select the correct combination of the temple and the state in which it is located.

**Ans** ✗ 1. Mahakaleshwar Jyotirlinga–Uttarakhand

✗ 2. Somnath Jyotirlinga Temple–Maharashtra

✓ 3. Kamakhya Temple–Assam

✗ 4. Jagannath Temple–West Bengal

**Q.22** Which Article of the Indian Constitution lays the condition that the President, once elected, shall NOT be a member of the either House of Parliament or state legislature?

**Ans** ✗ 1. Article 79

✗ 2. Article 80

✗ 3. Article 62

✓ 4. Article 59

**Q.23** Which of the following states will host 2023 Men's Hockey World Cup?

**Ans** ✗ 1. Chhattisgarh

✗ 2. Jharkhand

✓ 3. Odisha

✗ 4. Maharashtra

**Q.24** The Landholder's Society was founded to look after the interests of which class?

**Ans** ✗ 1. Traders

✗ 2. Labour

✗ 3. Farmers

✓ 4. Landlords

**Q.25** Which state among the following started the Hornbill Festival to encourage interaction among the tribes and to promote the cultural heritage of the state?

**Ans** ✗ 1. Chhattisgarh

✓ 2. Nagaland

✗ 3. West Bengal

✗ 4. Assam

**Q.26** Which of the following is a primary arylamine in which an amino functional group is substituted for one of the benzene hydrogens?

**Ans** ✗ 1. Pyridine

✓ 2. Aniline

✗ 3. Toluidine

✗ 4. Quinoline

**Q.27** Which of the following is NOT a correct match?

Ans
- ✗ 1. Conductance - Siemens
- ✗ 2. Voltage - Volts
- ✔ 3. Capacitance - Dyne
- ✗ 4. Resistance - Ohm

**Q.28** Choose the INCORRECT statement out of the following.

Ans
- ✔ 1. There is increase in rainfall generally from east to west in the Northern Plains.
- ✗ 2. Most parts of the country receive rainfall from June to September.
- ✗ 3. The annual precipitation in Meghalaya is over 400 cm.
- ✗ 4. Some parts like the Tamil Nadu's coast gets a large portion of its rains during October and November.

**Q.29** The age of the Earth is currently thought to be:

Ans
- ✔ 1. 4.5 billion years
- ✗ 2. 3.5 billion years
- ✗ 3. 4 billion years
- ✗ 4. 5 billion years

**Q.30** Consider the following statements regarding the Indo Greeks.
1. The most celebrated Indo-Greek ruler was Menander.
2. Menander has been identified with King Milinda mentioned in the famous Buddhist text Milindapanho.
3. Milindapanho contains philosophical questions that Milinda asked Amrapali.
4. Impressed by the answers, King Milinda accepted Buddhism as his religion.
Which among the above statements are correct.

Ans
- ✗ 1. Only 3, 2 and 4
- ✔ 2. Only 1, 2 and 4
- ✗ 3. Only 1, 3 and 4
- ✗ 4. Only 1, 2 and 3

**Q.31** Who among the following was the successor of Muhammad-Bin Tughlaq to the throne?

Ans
- ✗ 1. Ghiyath-ud-din Tughlaq Shah II
- ✗ 2. Abu Bakr Shah Tughlaq
- ✗ 3. Nais-ud-Din Mahmud Shah Tughlaq
- ✔ 4. Firuz Shah Tughlaq

**Q.32** Why do pickles last longer?

Ans
- ✗ 1. The water content of the pickle protect the pickle from spoilage.
- ✔ 2. Bacterial and fungal cells get plasmolysed in high salt concentration of pickle.
- ✗ 3. Pickle is prepared in a vacuum so that no harmful bacteria can grow on it.
- ✗ 4. Only beneficial bacteria can grow in the pickle.

**Q.33** Which Article of the Constitution clarifies that policies like 'reservation' is not a violation of right to equality?

Ans
- ✔ 1. Article 16 (4)
- ✗ 2. Article 15 (2)
- ✗ 3. Article 14 (1)
- ✗ 4. Article 21

**Q.34** How many cities are covered under the Atal Mission for Rejuvenation and Urban Transformation (AMRUT) scheme?

**Ans**
- ✅ 1. 500
- ❌ 2. 200
- ❌ 3. 400
- ❌ 4. 300

**Q.35** Who was the teacher of the famous musician Tansen?

**Ans**
- ❌ 1. Ravidas
- ❌ 2. Kalidas
- ❌ 3. Surdas
- ✅ 4. Swami Haridas

**Q.36** Kuchipudi originated in which of the following states?

**Ans**
- ✅ 1. Andhra Pradesh
- ❌ 2. Gujarat
- ❌ 3. Kerala
- ❌ 4. Tamil Nadu

**Q.37** How many balls are there in an over in cricket?

**Ans**
- ✅ 1. 6
- ❌ 2. 4
- ❌ 3. 7
- ❌ 4. 5

**Q.38** Which trend is found about the distance between the galaxies?

**Ans**
- ❌ 1. Unpredictable
- ❌ 2. Decreasing
- ❌ 3. Constant
- ✅ 4. Increasing

**Q.39** Pandit Ram Narayan a famous instrumentalist, is known for playing which of the following instruments?

**Ans**
- ✅ 1. Sarangi
- ❌ 2. Sarod
- ❌ 3. Veena
- ❌ 4. Ghatam

**Q.40** Which of the following is an autobiography of the international tennis player Andre Agassi?

**Ans**
- ❌ 1. Me
- ❌ 2. Becoming
- ❌ 3. Too Many Reasons to Live
- ✅ 4. Open: An Autobiography

**Q.41** In Which year did Ernst Haeckel introduced the term 'ecology' to describe the economies of living forms?

**Ans**
- ❌ 1. 1887
- ✅ 2. 1866
- ❌ 3. 1884
- ❌ 4. 1888

**Q.42** Which scientist synthesised an organic compound, urea, from an inorganic compound, ammonium cyanate?

Ans  ✗ 1. Berthelot

✓ 2. F Wohler

✗ 3. Kolbe

✗ 4. Berzelius

**Q.43** Which of the following options are homogeneous mixtures?

Ans  ✗ 1. Solution, colloid, milk, toothpaste, salt water, brass

✗ 2. Colloid, suspension, milk, toothpaste

✗ 3. Solution, colloid, suspension, milk, toothpaste, salt water, brass

✓ 4. Solution, salt water, brass

**Q.44** The black soil of the Deccan Plateau lacks which of the following minerals?

Ans  ✗ 1. Iron

✗ 2. Potash

✓ 3. Phosphorous

✗ 4. Lime

**Q.45** Which schedule of the Constitution of India contains provisions for disqualification of legislator on the ground of defection?

Ans  ✓ 1. Schedule-X

✗ 2. Schedule-XI

✗ 3. Schedule-VIII

✗ 4. Schedule-IX

**Q.46** When was the Prime Minister's Employment Generation Programme (PMEGP) launched?

Ans  ✗ 1. 2012

✓ 2. 2008

✗ 3. 2006

✗ 4. 2009

**Q.47** Which of the following CANNOT be grouped under physiographic divisions of India?

Ans  ✓ 1. Appalachian Mountains

✗ 2. The Island

✗ 3. The Himalayas

✗ 4. The Indian Desert

**Q.48** Match list I to list II.

| List I | List II |
| --- | --- |
| a) Second Five-year plan | i) 1974-1979 |
| b) Fifth Five-year plan | ii) 1956-1961 |
| c) Eight Five-year plan | iii) 1992-1997 |

Ans  ✗ 1. a-i, b-iii, c-ii

✗ 2. a-iii, b-i, c-ii

✓ 3. a-ii, b-i, c-iii

✗ 4. a-i, b-ii, c-iii

**Q.49** Who first observed ribosomes in the mid-1950s and described them as small particles in the cytoplasm that were preferentially attached to the endoplasmic reticulum membrane?

**Ans** ✅ 1. George E Palade

❌ 2. Ernst Abbe

❌ 3. Albert Kolliker

❌ 4. Carl Zeiss

---

**Q.50** In football, a kick is awarded to the opposition player when a player has committed a foul. What is the kick called?

**Ans** ❌ 1. Bicycle kick

❌ 2. Goal kick

❌ 3. Wide kick

✅ 4. Free kick

---

**Q.1** Sanjay and Rohan can complete a work in 8 days and 12 days, respectively. Starting with Sanjay, they work on alternate days. In how many days will the work be completed?

**Ans** ❌ 1. $9\frac{1}{3}$

❌ 2. $8\frac{1}{2}$

❌ 3. $9\frac{2}{3}$

✅ 4. $9\frac{1}{2}$

---

**Q.2** In an election between two candidates, 30% of the electorate did not cast their votes. 20% of the votes polled were found invalid. The winning candidate got 64% of the valid votes and won by a majority of 3136 votes. Find the number of voters enrolled in the voter list.

**Ans** ❌ 1. 24000

✅ 2. 20000

❌ 3. 25000

❌ 4. 30000

---

**Q.3** The table below shows the number of trees planted by the government in 4 different years.

| Year | Neem | Oak | Birch |
|------|------|------|-------|
| 2019 | 2000 | 3000 | 4000 |
| 2020 | 3000 | 4000 | 5000 |
| 2021 | 5000 | 6000 | 7000 |
| 2022 | 7000 | 8000 | 9000 |

Find the ratio between the number of neem trees planted in the year 2021 and the number of birch trees planted in the year 2022.

**Ans** ❌ 1. 3:7

❌ 2. 3:8

❌ 3. 5:8

✅ 4. 5:9

**Q.4** The given pie chart shows the distribution of land under various food crops. The expenditure invested on these food crops is ₹25,000 per annum. Study the pie chart carefully and answer the question that follows.
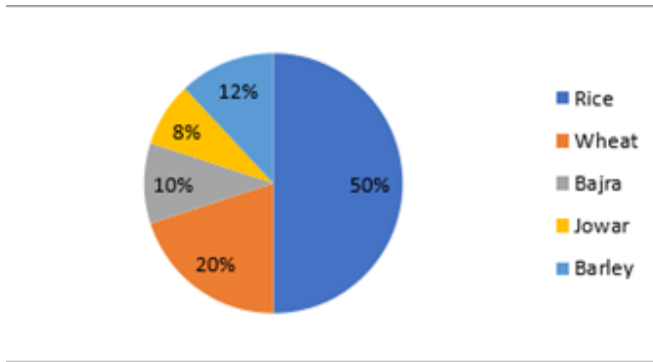


The expenditure invested in Rice and Barley is what percentage (correct to 2 decimal places) of the expenditure invested in Wheat and Bajra?

**Ans** ✓ 1. 206.66%

✗ 2. 260.66%

✗ 3. 260.55%

✗ 4. 206.55%

---

**Q.5** If the HCF of 45 and 55 is expressible in the form of 55 × 5 + 45m, then what is the value of m?

**Ans** ✗ 1. 5

✓ 2. –6

✗ 3. –5

✗ 4. 6

---

**Q.6** Two pipes can fill a cistern in 12 hours and 16 hours, respectively. The pipes are opened simultaneously and it is found that due to leakage at the bottom, it takes 90 minutes more to fill the cistern. How much time will the leakage take to empty the completely filled tank?

**Ans** ✗ 1. $39\dfrac{13}{49}\text{h}$

✗ 2. $36\dfrac{29}{49}\text{h}$

✗ 3. $37\dfrac{15}{49}\text{h}$

✓ 4. $38\dfrac{10}{49}\text{h}$

**Q.7** The following bar graph shows the milk production (in million tons) details for 4 years for three brands (P, Q, R):
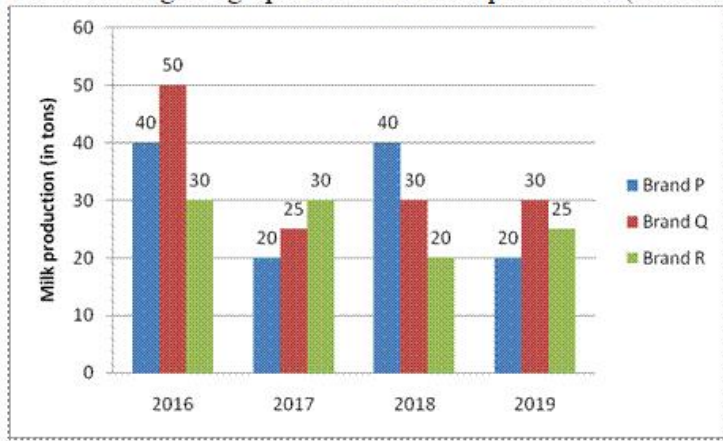


What was the average production of milk (in million tons) per year over the period of 4 years?

**Ans**  ✗ 1. 50

✗ 2. 30

✗ 3. 70

✓ 4. 90

---

**Q.8** The monthly salary of a person is ₹50,000. He spends 40% of his salary on household expenses, 25% on rent, and 15% on transportation, and saves the remaining amount. What is his yearly savings?

**Ans**  ✓ 1. ₹1,20,000

✗ 2. ₹1,10,000

✗ 3. ₹1,00,000

✗ 4. ₹90,000

---

**Q.9** Study the given bar-graph and answer the question that follows.
The bar-graph displays the number of bicycles produced at a factory from 1998 to 2002.
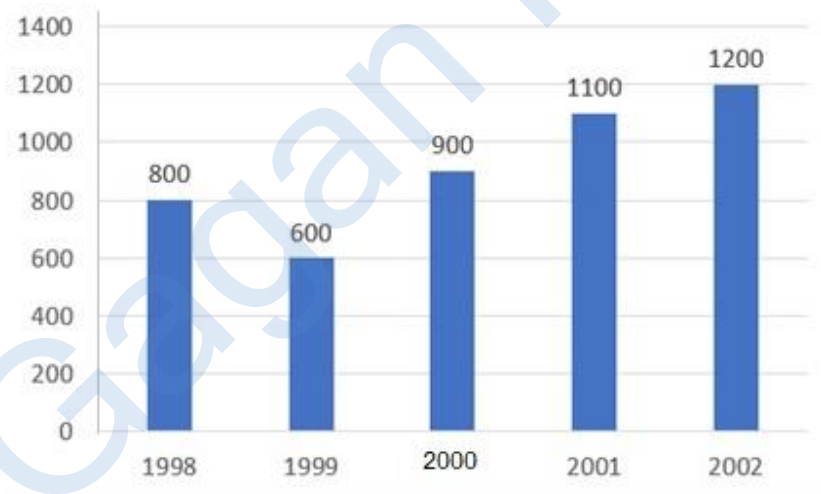


What was the average number of bicycles produced at the factory per year from 1998-2002?

**Ans**  ✗ 1. 940

✓ 2. 920

✗ 3. 880

✗ 4. 960

**Q.10** If the base radius and the height of a right circular cone are increased by 10%, then the percentage increase in the volume is:

Ans
✔ 1. 33.1%

✘ 2. 20.2%

✘ 3. 22.1%

✘ 4. 30.2%

**Q.11** Find the least number which when divided by 4, 9, 12 and 15, leaves the remainder 3 in each case.

Ans ✘ 1. 193

✔ 2. 183

✘ 3. 360

✘ 4. 180

**Q.12** The average weight of 49 students is 53 kg. When a new student is admitted to the class, the average decreases by 500 g. Find the weight of the new student.

Ans ✘ 1. 48 kg

✘ 2. 18 kg

✔ 3. 28 kg

✘ 4. 38 kg

**Q.13** 36 equally efficient workers can paint 25 identical walls in 48 days. In how many days can 45 such workers paint 60 such walls?

Ans ✘ 1. 91.96

✔ 2. 92.16

✘ 3. 92.36

✘ 4. 91.16

**Q.14** The cost price of pulses is 12% less than the selling price. Using a faulty weighing machine, shopkeeper is able to earn 25% profit. How much per cent of the faulty machine shows more weight as compared to the actual weight (Rounded off to the nearest integer)?

Ans ✔ 1. 10%

✘ 2. 14%

✘ 3. 13%

✘ 4. 15%

**Q.15** In a megastore, the following data reveals the units purchased during the years.
What is the percentage growth in total units purchased (of all the three products) from 2015 to 2020?

| Year | Tea | Coffee | Cold drink |
|------|-----|--------|------------|
| 2015 | 650 | 450 | 1008 |
| 2016 | 730 | 402 | 1092 |
| 2017 | 710 | 354 | 770 |
| 2018 | 570 | 438 | 812 |
| 2019 | 820 | 390 | 1043 |
| 2020 | 830 | 501 | 1330 |

**Ans**
✔ 1. 26.23 percent
✘ 2. 21.68 percent
✘ 3. 22.75 percent
✘ 4. 25.76 percent

**Q.16** Find the least value of $16\csc^2\theta + 25\sin^2\theta$.

**Ans**
✘ 1. 35
✘ 2. 38
✘ 3. 42
✔ 4. 40

**Q.17** Jimmy has to cover a distance of 88 km in 16 hours. If she covers half of the journey in $\frac{3}{4}$ time, then what should be her speed to cover the remaining distance in the time left?

**Ans**
✘ 1. 12 km/h
✘ 2. 10 km/h
✘ 3. 13 km/h
✔ 4. 11 km/h

**Q.18** Study the given table and answer the question that follows.

The table shows the percentage population of four states below poverty line and proportion of male to female.

| State | Percentage of population below poverty line | Proportion of male to female | |
|---|---|---|---|
| | | Below poverty line Male : Female | Above poverty line Male : Female |
| P | 28 | 3 : 2 | 7 : 3 |
| Q | 15 | 4 : 7 | 6 : 5 |
| R | 24 | 5 : 3 | 3 : 3 |
| S | 13 | 2 : 5 | 1 : 3 |

If the total population of state R is 26,000, then what is the number of females above poverty line in state R?

Ans ✗ 1. 9,560

✗ 2. 9,950

✔ 3. 9,880

✗ 4. 9,780

---

**Q.19** If cosec A + cot A = 3, $0 \leq A \leq 90^0$ , then find the value of cosA.

Ans ✗ 1. $\dfrac{2}{5}$

✗ 2. $\dfrac{3}{4}$

✗ 3. $\dfrac{3}{5}$

✔ 4. $\dfrac{4}{5}$

---

**Q.20** Determine the LCM of two numbers if their HCF is 12 and their ratio is 13 : 15.

Ans ✗ 1. 2450

✗ 2. 1780

✗ 3. 1890

✔ 4. 2340

---

**Q.21** The average weight of A, B and C is 77 kg. If the average weight of A and B is 68 kg and that of B and C is 83 kg, then the weight (in kg) of B is:

Ans ✔ 1. 71

✗ 2. 74

✗ 3. 67

✗ 4. 73

**Q.22** AB is a chord of a circle having radius 1.7 cm. If the distance of this chord AB from the centre of the circle is 0.8 cm, then what is the length (in cm) of the chord AB?

**Ans**
✗ 1. 2

✔ 2. 3

✗ 3. 4

✗ 4. 1

---

**Q.23**

The value of $\sqrt{\dfrac{1 + \sin A}{1 - \sin A}}$ is:

**Ans**
✗ 1. cosec A + cotA

✗ 2. cosec A - cotA

✗ 3. sec A - tanA

✔ 4. sec A + tanA

---

**Q.24** Study the given table and answer the question that follows.
The table shows the number of employees in five different organisations A, B, C, D and E in different departments.

| Dept ↓ Org→ | A | B | C | D | E |
|---|---|---|---|---|---|
| HR | 1050 | 1015 | 976 | 888 | 1004 |
| Finance | 1017 | 960 | 786 | 1025 | 963 |
| Marketing | 1382 | 1384 | 1275 | 1300 | 1290 |
| Production | 1542 | 1545 | 4550 | 1570 | 1580 |
| Accounts | 786 | 745 | 801 | 800 | 735 |
| Legal | 48 | 54 | 36 | 30 | 53 |
| Total | 5825 | 5703 | 5424 | 5613 | 5625 |

Which department has a minimum number of employees in each organisation?

**Ans**
✗ 1. Production

✔ 2. Legal

✗ 3. Accounts

✗ 4. Marketing

---

**Q.25**

The value of $\dfrac{a^2 - (b - c)^2}{(a + c)^2 - b^2} + \dfrac{b^2 - (a - c)^2}{(a + b)^2 - c^2} + \dfrac{c^2 - (a - b)^2}{(b + c)^2 - a^2}$ is:

**Ans**
✗ 1. 3

✗ 2. −1

✔ 3. 1

✗ 4. 2

---

**Q.26** By selling 42 m of cloth, Vijay gains the selling price of 7 m of cloth. Find the profit percentage.

**Ans**
✔ 1. 20%

✗ 2. 30%

✗ 3. 25%

✗ 4. 15%

**Q.27** In a triangle LMN, OP is a line segment drawn parallel to the side MN. OP intersects the sides LM and LN at O and P, respectively. If LM = 15 cm, OM = 4 cm, and PN = 5 cm, then what is the length (in cm) of the side LN?

**Ans**

✗ 1. 20.25

✗ 2. 16.25

✓ 3. 18.75

✗ 4. 22.75

---

**Q.28** The least common multiple of 12, 18 and 27 is :

**Ans**

✗ 1. 216

✗ 2. 54

✗ 3. 27

✓ 4. 108

---

**Q.29** The diameter of a hemisphere is equal to the diagonal of a rectangle of length 4 cm and breadth 3 cm. Find the total surface area (in cm$^2$) of the hemisphere.

**Ans**

✗ 1. $25\pi$

✗ 2. $\dfrac{50\pi}{4}$

✗ 3. $\dfrac{25\pi}{4}$

✓ 4. $\dfrac{75\pi}{4}$

---

**Q.30** What is the smallest perfect square number which is completely divisible by 4, 6, 9, 12 and 15?

**Ans**

✓ 1. 900

✗ 2. 961

✗ 3. 784

✗ 4. 841

---

**Q.31** On an item, there is an 18% discount on the marked price of ₹26,000. After giving an additional season's discount, the item is sold at ₹16,000. How much was the season's discount correct upto two places of decimal?

**Ans**

✓ 1. 24.95%

✗ 2. 22.45%

✗ 3. 24.65%

✗ 4. 35.25%

---

**Q.32** Kanchan lent ₹10,000 for 2 years and ₹5,000 for 4 years at the same rate of simple interest. If the total interest received by Kanchan is ₹2,000, then what was the rate of interest?

**Ans**

✗ 1. 4%

✗ 2. 2%

✗ 3. 3%

✓ 4. 5%

**Q.33** A goods train 350 m long passes through a tunnel of 1250m in 80 seconds. What is the speed of the train?

**Ans**
✗ 1. 78 km/h

✓ 2. 72 km/h

✗ 3. 56 km/h

✗ 4. 64 km/h

---

**Q.34** Study the given graph and answer the question that follows.
The graph shows data regarding number of boys and girls studying in class 5 in four different schools.
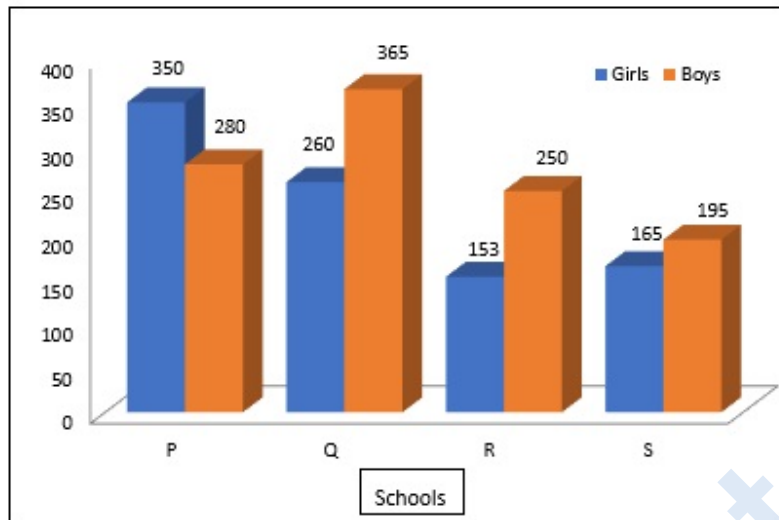


What is the difference between total number of boys studying in school P and Q together and the total number of girls in the same schools together?

**Ans**
✗ 1. 40

✓ 2. 35

✗ 3. 45

✗ 4. 38

---

**Q.35** In an election between two candidates, the difference between the candidates who won and lost was 2,500 votes. The candidate who won got 75% of the votes, and there were no invalid votes. The total number of votes polled of the losing candidate was:

**Ans**
✗ 1. 1875

✓ 2. 1250

✗ 3. 5000

✗ 4. 3750

---

**Q.36** Two mixtures A and B have the following compositions:
Mixture A has copper and tin in a ratio of 1:2
Mixture B has copper and tin in a ratio of 1:3
If equal quantities of mixtures A and B are used for producing mixture C, then find the ratio of copper and tin in mixture C.

**Ans**
✗ 1. 2:5

✓ 2. 7:17

✗ 3. 7:12

✗ 4. 1:5

**Q.37** The monthly budget of an average household is given in the following table.

| Category | Food | Clothing | Rent | Savings |
|----------|------|----------|------|---------|
| Amount | 8000 | 2000 | 6000 | 4000 |

The percentage of the monthly budget spent on clothing is:

Ans ✗ 1. 12%

✗ 2. 4%

✗ 3. 8%

✔ 4. 10%

**Q.38** If $1\frac{1}{3} \div \frac{2}{5} \times \frac{x}{5} = 1\frac{1}{4} \times \frac{2}{3} \div \frac{1}{6}$, then the value of x is:

Ans ✗ 1. 7.0

✗ 2. 5.5

✗ 3. 15

✔ 4. 7.5

**Q.39** A sum of money amounts to ₹1,200 in 2 years and becomes ₹1,260 in 3 years at compound interest, when interest is compounded annually. What is the rate of compound interest per annum?

Ans ✗ 1. 6%

✗ 2. 3%

✔ 3. 5%

✗ 4. 4%

**Q.40** A cylindrical metallic rod of diameter 2 cm and length 45 cm is melted and converted into wire of uniform thickness and length 5 m. The diameter of the wire is:

Ans ✗ 1. 5 mm

✗ 2. 3 mm

✗ 3. 2 mm

✔ 4. 6 mm

**Q.41** The area of a rhombus having one side measuring 17 cm and one diagonal measuring 16 cm is:

Ans ✗ 1. 280 cm$^2$

✗ 2. 210 cm$^2$

✗ 3. 180 cm$^2$

✔ 4. 240 cm$^2$

**Q.42** If the volume of a sphere is 38808 cm$^3$, then its surface area is:

Ans ✗ 1. 5564 cm$^2$

✔ 2. 5544 cm$^2$

✗ 3. 5554 cm$^2$

✗ 4. 5574 cm$^2$

**Q.43** Find the mean proportion of $x^3y$ and $xy^3$.

**Ans**
   ✗ 1. $xy$

   ✓ 2. $x^2y^2$

   ✗ 3. $x^3y^3$

   ✗ 4. $x^4y^4$

---

**Q.44** A vehicle is going at one-fourth of its usual speed and it takes an extra 45 minutes to reach its destination. Its usual time to cover the same distance is:

**Ans**
   ✗ 1. 20 minutes

   ✓ 2. 15 minutes

   ✗ 3. 10 minutes

   ✗ 4. 30 minutes

---

**Q.45** Ramesh gives fifteen per cent additional discount along with a discount of 25% on the marked price of a sofa set. If the selling price of the sofa set is ₹12,750, then find the marked price of the sofa set.

**Ans**
   ✗ 1. ₹22,000

   ✗ 2. ₹23,000

   ✗ 3. ₹24,000

   ✓ 4. ₹20,000

---

**Q.46** In a ΔPQR, ∠P=90°, ∠R=47° and PS⊥QR. Find the value of ∠QPS.

**Ans**
   ✗ 1. 45°

   ✗ 2. 40°

   ✗ 3. 43°

   ✓ 4. 47°

---

**Q.47** Which of the following numbers leaves the remainder equal to the highest common factor of 6, 8 and 9, when divided by 6, 8 and 9?

**Ans**
   ✗ 1. 506

   ✗ 2. 575

   ✗ 3. 291

   ✓ 4. 433

---

**Q.48** Simplify the given expression.

$$(1 + x)^3 + (1 - x)^3 + (-2)^3$$

**Ans**
   ✗ 1. $3(1-x^2)$

   ✗ 2. $6(1-x^2)$

   ✓ 3. $-6(1-x^2)$

   ✗ 4. $-3(1-x^2)$

---

**Q.49** If perimeter of the circle is 13.2 cm, then the radius of the circle is ____.

$$\left(\text{Take } \pi = \frac{22}{7}\right)$$

**Ans**
   ✗ 1. 4.2 cm

   ✓ 2. 2.1 cm

   ✗ 3. 3.3 cm

   ✗ 4. 6.6 cm

**Q.50** If $\cos A = \frac{1}{11}$, then find the value of $\cot A$.

**Ans**

✗ 1. $\dfrac{2\sqrt{30}}{11}$

✗ 2. $2\sqrt{30}$

✗ 3. $\dfrac{11}{2\sqrt{30}}$

✓ 4. $\dfrac{1}{2\sqrt{30}}$

---

**Q.1** The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.
We should / not make an noise / in the class.

**Ans**

✓ 1. not make an noise

✗ 2. in the class

✗ 3. We should

✗ 4. No error

---

**Q.2** Select the most appropriate idiom for the given situation focusing on the underlined segment.

The modern era statistics data <u>provides useful advantage</u> to the players at competent level.

**Ans**

✗ 1. Play it by ear

✗ 2. Put something on ice

✓ 3. Grist to the mill

✗ 4. Cost an arm and a leg

---

**Q.3** Select the most appropriate option that can substitute the underlined segment in the given sentence.

Naina is leaving and I am <u>think to apply</u> for her job.

**Ans**

✗ 1. thinking about apply

✗ 2. thinking on applying

✓ 3. thinking about applying

✗ 4. thinking in applying

---

**Q.4** Select the most appropriate synonym of the given word.

Extravagance

**Ans**

✓ 1. Self- indulgence

✗ 2. Love

✗ 3. Fortune

✗ 4. Simplicity

---

**Q.5** Select the most appropriate ANTONYM of the given word.
Malice

**Ans**

✗ 1. Tremor

✗ 2. Haughtiness

✗ 3. Torsion

✓ 4. Kindness

**Q.6** Select the option that can be used as a one-word substitute for the given group of words.

Extremely beautiful, elaborate or impressive

**Ans** ✗ 1. Transient

✔ 2. Magnificent

✗ 3. Proficient

✗ 4. Deficient

**Q.7** Select the most appropriate option that can substitute the underlined segment in the given sentence.
Malati has a difficult job, but she does it good.

**Ans** ✗ 1. nice

✗ 2. best

✗ 3. better

✔ 4. well

**Q.8** Select the most appropriate option to substitute the underlined segment in the given sentence.

At some point in the past, there were rows of temporary shops that used to display various cooking utensils.

**Ans** ✗ 1. In the past few years

✔ 2. Long ago

✗ 3. Before now

✗ 4. One upon a time

**Q.9** Select the most appropriate meaning of the given idiom.
To burn the midnight oil

**Ans** ✗ 1. To overthink

✔ 2. To stay up late working or studying

✗ 3. To waste time

✗ 4. To be relaxed and calm

**Q.10** Identify the ANTONYM of the following word in the given sentence.
Languid
The animated infantry was marching forward for another rehearsal.

**Ans** ✗ 1. infantry

✗ 2. forward

✔ 3. animated

✗ 4. rehearsal

**Q.11** Select the option that can be used as a one-word substitute for the given group of words.

A structure in the garden where climbing plants can grow and people can walk under

**Ans** ✔ 1. Pergola

✗ 2. Tomb

✗ 3. Outhouse

✗ 4. Treehouse

**Q.12** Select the most appropriate synonym of the given word.

**Cruise**

Ans ✔ 1. Voyage

✘ 2. Bounce

✘ 3. Fall

✘ 4. Distance

---

**Q.13** You are preparing a speech for an upcoming function. Select a synonym for the highlighted word to make it better.

**Sexual assault is a severe and pervasive issue that can have a significant impact on a victim's life.**

Ans ✘ 1. Equatorial

✘ 2. Retrospective

✔ 3. Widespread

✘ 4. Longitudinal

---

**Q.14** Select the most appropriate meaning of the given word.

**Trousseau**

Ans ✘ 1. Being true to oneself

✘ 2. Single leg side of a trouser

✘ 3. A large cabinet full of expensive clothes

✔ 4. The clothes, linen, and other belongings collected by a bride for her marriage

---

**Q.15** Select the INCORRECTLY spelt word.

Ans ✔ 1. Prefered

✘ 2. Reference

✘ 3. Revered

✘ 4. Answered

---

**Q.16** The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

**I was wish / to meet her / on her birthday.**

Ans ✘ 1. to meet her

✘ 2. No error

✔ 3. I was wish

✘ 4. on her birthday

---

**Q.17** Select the most appropriate meaning of the given idiom.
**Steer clear of**

Ans ✘ 1. Loose temper and react furiously to someone

✔ 2. Avoid someone or something because it is dangerous for you

✘ 3. Be kind and empathetic to someone

✘ 4. Show someone how to do a job or activity

---

**Q.18** Select the option that can be used as a one-word substitute for the given group of words.
**A collection of historical documents or records providing information about a place, institution, or group of people**

Ans ✘ 1. Asylum

✘ 2. Museum

✘ 3. Apostate

✔ 4. Archive

**Q.19** Select the most appropriate synonym of the underlined word.
It was <u>inevitable</u> that the team management would sack him after his rude behaviour.

**Ans**
✗ 1. impassionate

✓ 2. unavoidable

✗ 3. amiable

✗ 4.  measurable

**Q.20** Select the most appropriate synonym of the given word.

**Antique**

**Ans**
✗ 1. Gothic

✗ 2. New

✓ 3. Ancient

✗ 4. Modern

**Q.21** The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

**It is take / a couple of minutes / for the computer / to boot up.**

**Ans**
✓ 1. It is take

✗ 2. to boot up

✗ 3. for the computer

✗ 4. a couple of minutes

**Q.22** Select the most appropriate meaning of the underlined idiom.
He ate the whole bunch of grapes <u>under the nose</u> of all of us.

**Ans**
✗ 1. After much persuasion

✗ 2. Sharing equally

✓ 3. In full view of somebody

✗ 4. Secretly

**Q.23** Select the most appropriate idiom for the given situation.
You wanted to speak but you controlled yourself and became patient. What have you done?

**Ans**
✗ 1. Pin drop silence

✗ 2. Dragged your feet

✗ 3. Herculean task

✓ 4. Held your horses

**Q.24** Select the most appropriate meaning of the underlined idiom in the following sentence.

Rahim had <u>to eat a humble pie</u> in starting a row with his neighbour over a trifle.

**Ans**
✓ 1. To feel sorry and apologise for a mistake

✗ 2. To be punished for doing something wrong

✗ 3. To remain without food

✗ 4. To take simple food

**Q.25** Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.
He travelled the whole world, but found <u>piece</u> at home.

**Ans**
✗ 1. No substitution required

✗ 2. prize

✗ 3.  peach

✓ 4. peace

**Q.26** Select the most appropriate synonym of the given word.
**Faithful**

**Ans** ✗ 1. Cheerful

✗ 2. Unfaithful

✗ 3. Daring

✓ 4. Loyal

**Q.27** Select the most appropriate meaning of the given idiom.

**Step up to the plate**

**Ans** ✓ 1. Take control of a situation

✗ 2. Plan for better performance

✗ 3. Implement a plan

✗ 4. Think about a crisis

**Q.28** Select the INCORRECTLY spelt word.

**Ans** ✗ 1. Addict

✓ 2. Abdact

✗ 3. Adjourn

✗ 4. Advise

**Q.29** Select the INCORRECTLY spelt word in the given sentence.

**The Egyptian Pharohs were the Kings of ancient Egypt and were considered as the literal embodiment of God himself.**

**Ans** ✗ 1. literal

✗ 2. embodiment

✓ 3. pharohs

✗ 4. ancient

**Q.30** Select the INCORRECTLY spelt word.

**Ans** ✗ 1. Amicable

✓ 2. Braed

✗ 3. Isle

✗ 4. Achieve

**Q.31** Select the option that will improve the underlined part of the given sentence.
**Farmers have harvested wheat by using whatever labour that was available to them.**

**Ans** ✗ 1. by using dispersed labour

✗ 2. by using amalgamated labour

✗ 3. by using united labour

✓ 4. by using limited labour

**Q.32** Select the option that can be used as a one-word substitute for the underlined group of words.

**Since God is an all-powerful creator, he has absolute control over those whom he has created.**

**Ans** ✗ 1. Omniscient

✗ 2. Voracious

✓ 3. Omnipotent

✗ 4. Incorrigible

**Q.33** Select the most appropriate meaning of the highlighted idiom in the given sentence.

Nancy held a grudge against her teacher for a long time, but she finally decided to let bygones be bygones.

Ans ✔ 1. Ignore the past

✘ 2. Change the past

✘ 3. Flatter someone

✘ 4. Take revenge

**Q.34** Select the most appropriate option that can substitute the underlined segment in the given sentence.

She was yearning for a trip to the mountains.

Ans ✔ 1. keenly desiring

✘ 2. saving money for

✘ 3. leaving for

✘ 4. deeply repenting

**Q.35** The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

We have being / arranged the stay / for the guests at / a hillside resort.

Ans ✘ 1. a hillside resort

✔ 2. We have being

✘ 3. for the guests at

✘ 4. arranged the stay

**Q.36** Select the most appropriate ANTONYM for the highlighted word.
The malice he developed for all caused a lot of damage.

Ans ✘ 1. oppression

✔ 2. sympathy

✘ 3. grace

✘ 4. avarice

**Q.37** Select the INCORRECTLY spelt word from the underlined words in the following sentence.
As affidevit is a statement or declaration in writing an oath or affirmation, sworn before a person having authority to administer oath.

Ans ✘ 1. administer

✘ 2. authority

✘ 3. affirmation

✔ 4. affidevit

**Q.38** Select the most appropriate synonym of the given word.
Fierce

Ans ✘ 1. Strange

✔ 2. Furious

✘ 3. Lame

✘ 4. Lavish

**Q.39** Choose the option which means the same as the underlined segment.
The boss wanted to finish the case before the arrival of the Inspection team.

Ans ✘ 1. be over one's head

✔ 2. be over and done with

✘ 3. be over and over

✘ 4. be over a barrel

**Q.40**  **Select the most appropriate meaning of the underlined idiom.**
**Yamini is a great singer. She will <u>make it big</u> one day.**

**Ans**  ✗ 1. Migrate and settle

✗ 2. Educated and rich

✓ 3. Succeed and become famous

✗ 4. Become financially sound

---

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Discrimination refers to the inequitable or (1)_____ treatment of individuals or collectives on the basis of attributes such as ethnicity, sex, age and sexual orientation. Studies have indicated that the perception of discrimination can (2)_____ a series of stress-induced alterations in an individual's mental, physiological and behavioural responses. The experience of stress is known to elicit unfavourable emotional reactions, including but not limited to (3)_____, despair and resentment. Furthermore, anxiety has been linked to a rise in health-compromising behaviours such as smoking, drinking and (4)_____ drug use, while simultaneously causing a (5)_____ in health-promoting activities such as quality sleep and vigorous exercise.

**SubQuestion No : 41**

**Q.41**  **Select the most appropriate option to fill in blank no. 1.**

**Ans**  ✗ 1. tragic

✓ 2. biased

✗ 3. systematic

✗ 4. pathetic

---

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Discrimination refers to the inequitable or (1)_____ treatment of individuals or collectives on the basis of attributes such as ethnicity, sex, age and sexual orientation. Studies have indicated that the perception of discrimination can (2)_____ a series of stress-induced alterations in an individual's mental, physiological and behavioural responses. The experience of stress is known to elicit unfavourable emotional reactions, including but not limited to (3)_____, despair and resentment. Furthermore, anxiety has been linked to a rise in health-compromising behaviours such as smoking, drinking and (4)_____ drug use, while simultaneously causing a (5)_____ in health-promoting activities such as quality sleep and vigorous exercise.

**SubQuestion No : 42**

**Q.42**  **Select the most appropriate option to fill in blank no. 2.**

**Ans**  ✗ 1. motivate

✗ 2. inspire

✗ 3. support

✓ 4. trigger

---

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Discrimination refers to the inequitable or (1)_____ treatment of individuals or collectives on the basis of attributes such as ethnicity, sex, age and sexual orientation. Studies have indicated that the perception of discrimination can (2)_____ a series of stress-induced alterations in an individual's mental, physiological and behavioural responses. The experience of stress is known to elicit unfavourable emotional reactions, including but not limited to (3)_____, despair and resentment. Furthermore, anxiety has been linked to a rise in health-compromising behaviours such as smoking, drinking and (4)_____ drug use, while simultaneously causing a (5)_____ in health-promoting activities such as quality sleep and vigorous exercise.

**SubQuestion No : 43**

**Q.43**  **Select the most appropriate option to fill in blank no. 3.**

**Ans**  ✗ 1. deafness

✗ 2. impairment

✗ 3. death

✓ 4. anxiety

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Discrimination refers to the inequitable or (1)_____ treatment of individuals or collectives on the basis of attributes such as ethnicity, sex, age and sexual orientation. Studies have indicated that the perception of discrimination can (2)_____ a series of stress-induced alterations in an individual's mental, physiological and behavioural responses. The experience of stress is known to elicit unfavourable emotional reactions, including but not limited to (3)_____, despair and resentment. Furthermore, anxiety has been linked to a rise in health-compromising behaviours such as smoking, drinking and (4)_____ drug use, while simultaneously causing a (5)_____ in health-promoting activities such as quality sleep and vigorous exercise.

**SubQuestion No : 44**

**Q.44** **Select the most appropriate option to fill in blank no. 4.**

**Ans** ✗ 1. prescribed

✗ 2. mandatory

✗ 3. legitimate

✓ 4. illicit

---

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Discrimination refers to the inequitable or (1)_____ treatment of individuals or collectives on the basis of attributes such as ethnicity, sex, age and sexual orientation. Studies have indicated that the perception of discrimination can (2)_____ a series of stress-induced alterations in an individual's mental, physiological and behavioural responses. The experience of stress is known to elicit unfavourable emotional reactions, including but not limited to (3)_____, despair and resentment. Furthermore, anxiety has been linked to a rise in health-compromising behaviours such as smoking, drinking and (4)_____ drug use, while simultaneously causing a (5)_____ in health-promoting activities such as quality sleep and vigorous exercise.

**SubQuestion No : 45**

**Q.45** **Select the most appropriate option to fill in blank no. 5.**

**Ans** ✗ 1. unfruitful

✗ 2. upheaval

✓ 3. decline

✗ 4. rise

---

**Comprehension:**

Read the given passage carefully and answer the questions that follow.
The world of social media is a strange and wondrous place. It's a world where you can connect with people from all over the globe, share your thoughts and opinions, and maybe even go viral if you're lucky. But let's be real, it's also a world filled with endless cat videos, oversharing, and drama.
One of the most interesting things about social media is the way it's changed the way we communicate. We've gone from long, thoughtful emails to quick, abbreviated messages with emojis and acronyms. And don't even get me started on the whole hashtag phenomenon. It's like we're all speaking a different language now.
But there are also some downsides to this constant connection. It's easy to get sucked into the world of social media and forget about the real world around us. We're so busy scrolling through our feeds that we forget to enjoy the little moments in life. And let's not forget about the pressure to present the perfect life online. It's like we're all in a competition to see who can be the most popular, the most successful, the most enviable.
Despite all of this, I have to admit, I'm still a fan of social media. It's a great way to stay connected with friends and family, and I've even made some new friends through various online communities. Plus, let's face it, sometimes you just need a good laugh at a ridiculous meme.

**SubQuestion No : 46**

**Q.46** **What is one of the downsides of social media mentioned in the passage?**

**Ans** ✗ 1. It can help connect with people all over the globe.

✗ 2. It encourages people to enjoy the little moments in life.

✓ 3. It can lead to pressure to present a perfect life online.

✗ 4. It's a great way to stay connected with friends and family.

**Comprehension:**

Read the given passage carefully and answer the questions that follow.

The world of social media is a strange and wondrous place. It's a world where you can connect with people from all over the globe, share your thoughts and opinions, and maybe even go viral if you're lucky. But let's be real, it's also a world filled with endless cat videos, oversharing, and drama.

One of the most interesting things about social media is the way it's changed the way we communicate. We've gone from long, thoughtful emails to quick, abbreviated messages with emojis and acronyms. And don't even get me started on the whole hashtag phenomenon. It's like we're all speaking a different language now.

But there are also some downsides to this constant connection. It's easy to get sucked into the world of social media and forget about the real world around us. We're so busy scrolling through our feeds that we forget to enjoy the little moments in life. And let's not forget about the pressure to present the perfect life online. It's like we're all in a competition to see who can be the most popular, the most successful, the most enviable.

Despite all of this, I have to admit, I'm still a fan of social media. It's a great way to stay connected with friends and family, and I've even made some new friends through various online communities. Plus, let's face it, sometimes you just need a good laugh at a ridiculous meme.

**SubQuestion No : 47**

**Q.47  Which of the following is NOT mentioned as a way social media has changed the way we communicate?**

Ans      ✗ 1. The use of hashtags.

✗ 2. Quick, abbreviated messages with emojis and acronyms.

✔ 3. Video conferencing for more meaningful conversations.

✗ 4. Connecting with people from all over the world.

---

**Comprehension:**

Read the given passage carefully and answer the questions that follow.

The world of social media is a strange and wondrous place. It's a world where you can connect with people from all over the globe, share your thoughts and opinions, and maybe even go viral if you're lucky. But let's be real, it's also a world filled with endless cat videos, oversharing, and drama.

One of the most interesting things about social media is the way it's changed the way we communicate. We've gone from long, thoughtful emails to quick, abbreviated messages with emojis and acronyms. And don't even get me started on the whole hashtag phenomenon. It's like we're all speaking a different language now.

But there are also some downsides to this constant connection. It's easy to get sucked into the world of social media and forget about the real world around us. We're so busy scrolling through our feeds that we forget to enjoy the little moments in life. And let's not forget about the pressure to present the perfect life online. It's like we're all in a competition to see who can be the most popular, the most successful, the most enviable.

Despite all of this, I have to admit, I'm still a fan of social media. It's a great way to stay connected with friends and family, and I've even made some new friends through various online communities. Plus, let's face it, sometimes you just need a good laugh at a ridiculous meme.

**SubQuestion No : 48**

**Q.48  Which of the following would be the most appropriate title for this passage?**

Ans      ✗ 1. Mastering the Art of Social Media

✗ 2. The Dark Side of Social Media

✗ 3. The Benefits of Social Media

✔ 4. The Joys and Sorrows of Social Media

**Comprehension:**

Read the given passage carefully and answer the questions that follow.

The world of social media is a strange and wondrous place. It's a world where you can connect with people from all over the globe, share your thoughts and opinions, and maybe even go viral if you're lucky. But let's be real, it's also a world filled with endless cat videos, oversharing, and drama.

One of the most interesting things about social media is the way it's changed the way we communicate. We've gone from long, thoughtful emails to quick, abbreviated messages with emojis and acronyms. And don't even get me started on the whole hashtag phenomenon. It's like we're all speaking a different language now.

But there are also some downsides to this constant connection. It's easy to get sucked into the world of social media and forget about the real world around us. We're so busy scrolling through our feeds that we forget to enjoy the little moments in life. And let's not forget about the pressure to present the perfect life online. It's like we're all in a competition to see who can be the most popular, the most successful, the most enviable.

Despite all of this, I have to admit, I'm still a fan of social media. It's a great way to stay connected with friends and family, and I've even made some new friends through various online communities. Plus, let's face it, sometimes you just need a good laugh at a ridiculous meme.

**SubQuestion No : 49**

**Q.49 What is the theme of the passage?**

Ans  ✗ 1. The dangers of spending too much time online.

✗ 2. The history of social media.

✗ 3. The importance of social media for businesses.

✔ 4. The positive and negative effects of social media.

**Comprehension:**

Read the given passage carefully and answer the questions that follow.

The world of social media is a strange and wondrous place. It's a world where you can connect with people from all over the globe, share your thoughts and opinions, and maybe even go viral if you're lucky. But let's be real, it's also a world filled with endless cat videos, oversharing, and drama.

One of the most interesting things about social media is the way it's changed the way we communicate. We've gone from long, thoughtful emails to quick, abbreviated messages with emojis and acronyms. And don't even get me started on the whole hashtag phenomenon. It's like we're all speaking a different language now.

But there are also some downsides to this constant connection. It's easy to get sucked into the world of social media and forget about the real world around us. We're so busy scrolling through our feeds that we forget to enjoy the little moments in life. And let's not forget about the pressure to present the perfect life online. It's like we're all in a competition to see who can be the most popular, the most successful, the most enviable.

Despite all of this, I have to admit, I'm still a fan of social media. It's a great way to stay connected with friends and family, and I've even made some new friends through various online communities. Plus, let's face it, sometimes you just need a good laugh at a ridiculous meme.

**SubQuestion No : 50**

**Q.50 What is the ANTONYM of the word 'perfect', as used in the passage?**

Ans  ✗ 1. Limited

✗ 2. Laughable

✗ 3. Troublesome

✔ 4. Unsatisfactory

**Q.1** Select the correct mirror image of the given figure when the mirror is placed at line MN as shown.
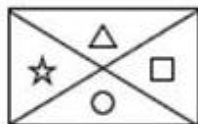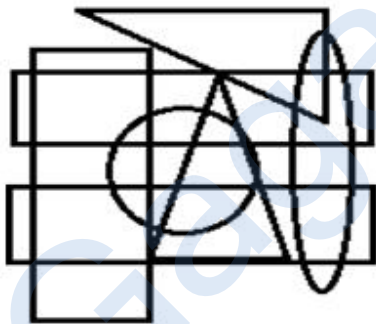


**Ans**

✗ 1. 

✔ 2. 

✗ 3. 

✗ 4. 
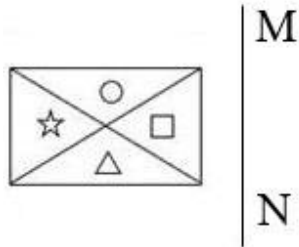
**Q.2** Select the option figure which is embedded in the given figure as its part (rotation is NOT allowed).
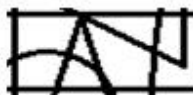


**Ans**

✗ 1. 

✔ 2. 

✗ 3. 

✗ 4. 

**Q.3** If A denotes '+', B denotes '×', C denotes '−', and D denotes '÷', then what will be the value of the following equation?
94 C 12 B 6 A 216 D 9 = ?

**Ans**
✗ 1. 52

✗ 2. 68

✗ 3. 47

✔ 4. 46

**Q.4** In a certain code language, 'GRAPE' is coded as 21-54-3-48-15 and 'MELON' is coded as 39-15-36-45-42. How will 'PEACH' be coded in the same language?

**Ans**
✗ 1. 49-15-3-9-27

✗ 2. 45-16-3-9-24

✗ 3. 48-15-3-8-27

✔ 4. 48-15-3-9-24

**Q.5** In a certain code language, 'EDUCATION' is written as 'FCVBBSJNO' and 'MICROSOFT' is written as 'NHDQPRPEU'. How will 'SEMICIRCLE' be written in that language?

**Ans**
✗ 1. TDNHHDSBFD

✗ 2. TDNHHDSBFM

✗ 3. TDHNDHSFBD

✔ 4. TDNHDHSBMD

**Q.6** In a certain code language, 'YATCH' is coded as 67 and 'DINE' is coded as 40. How will 'MANGO' be coded in that language?

**Ans**
✗ 1. 57

✔ 2. 60

✗ 3. 65

✗ 4. 62

**Q.7** Choose one of the following correct combinations of mathematical signs which can be filled to balance the following equation.

86 ◯ 42 ◯ 12 ◯ 3 ◯ 12 ◯ 3 ◯ 4

**Ans**
✔ 1. −,−, ÷, =, ×, +

✗ 2. −, +, ÷, ×, =, +

✗ 3. +,−, ÷, ×, =, +

✗ 4. −, +, ×, =, ÷, +

**Q.8** Given below are two statements and two conclusions. Take the statements to be true even if they are at variance with commonly known facts, and decide whether the conclusion(s) follow(s) the given statements.
Statements:
Some dates are hazelnuts.
All hazelnuts are walnuts.
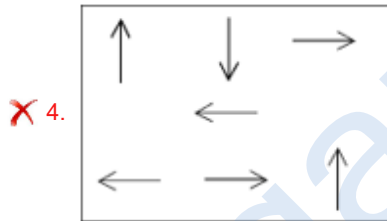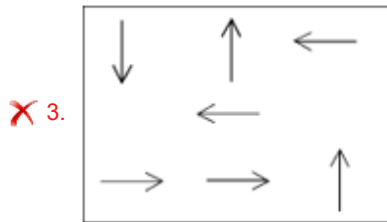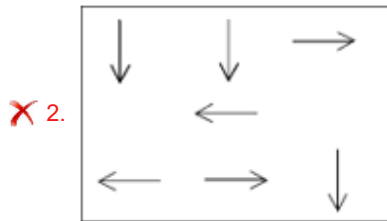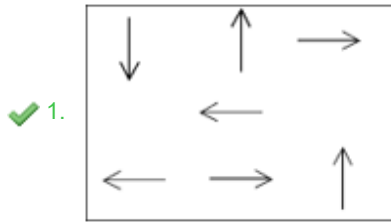Conclusions:
I. Some dates are walnuts.
II. Some walnuts are hazelnuts.

**Ans**
✗ 1. Neither conclusion I nor II follows

✗ 2. Only conclusion II follows

✔ 3. Both the conclusions follow

✗ 4. Only conclusion I follows

**Q.9** Select the correct mirror image of the given figure, when the mirror is placed at line MN as shown.



**Ans**



✔ 1.



✘ 2.



✘ 3.



✘ 4.

---
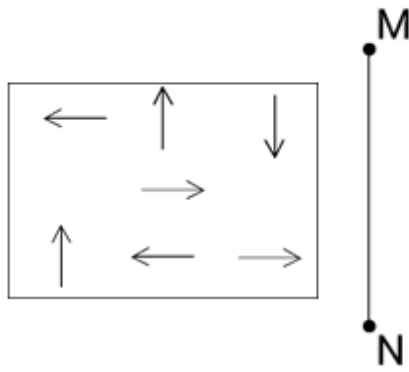
**Q.10** Which number will replace the question mark (?) in the following series?
6, 20, 42, ?, 110, 156

**Ans**
✔ 1. 72
✘ 2. 50
✘ 3. 80
✘ 4. 64

---

**Q.11** उस विकल्प का चयन करें, जो तीसरे शब्द से उसी प्रकार संबंधित है, जिस प्रकार दूसरा शब्द पहले शब्द से संबंधित है।
(शब्दों को अर्थपूर्ण शब्दों के रूप में माना जाना चाहिए, और इन्हें शब्द में अक्षरों की संख्या/व्यंजनों की संख्या/स्वरों की संख्या के आधार पर एक-दूसरे से संबद्ध नहीं किया जाना चाहिए।)
पेडल (Pedal) : साइकिल (Bicycle) :: चप्पू (Oar) : ?

**Ans**
✘ 1. मोटरसाइकिल (Motorcycle)
✘ 2. टेलीविजन (Television)
✔ 3. डोंगी (Canoe)
✘ 4. कार (Car)

**Q.12** Three different positions of the same dice are shown. Find the number on the face opposite the face showing '6'.
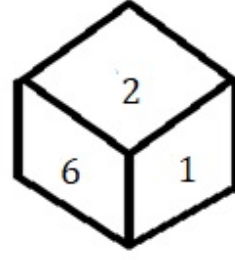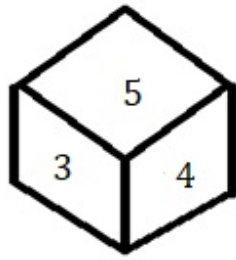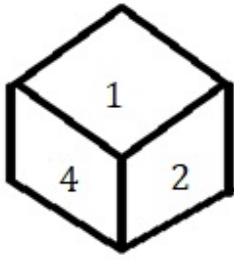


**Ans**  ✓ 1. 4

✗ 2. 1

✗ 3. 3

✗ 4. 2

---

**Q.13** Select the set in which the numbers are related in the same way as are the numbers of the following set.

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)

(2, 5, 341)
(1, 7, 510)

**Ans**  ✗ 1. (2,5,56)

✗ 2. (3,6,64)

✓ 3. (1,2,25)

✗ 4. (8,2,140)

---

**Q.14** Pooja drives 4 km towards east from point A. She takes a right turn and drives 2 km. Then she takes a left turn and drives 3 km. Again, she takes a left turn and drives 2 km to reach point B. How far and towards which direction should she drive now in order to reach point A again?

**Ans**  ✓ 1. 7 km towards west

✗ 2. 4 km towards east

✗ 3. 4 km towards south

✗ 4. 5 km towards north

---

**Q.15** Which letter-cluster will replace the question mark (?) to complete the given series?
ZFKQ, BCMN, ?, FWQH, HTSE

**Ans**  ✗ 1. DAOL

✗ 2. DBOM

✗ 3. DZPJ

✓ 4. DZOK

---

**Q.16** "Z @ A" का अर्थ है "Z, A का पुत्र है"।
"Z * A" का अर्थ है "Z, A का भाई है"।
"Z × A" का अर्थ है "Z, A के पिता है"।
"Z # A" का अर्थ है "Z, A की बहन है"।
"Z $ A" का अर्थ है "Z, A की पुत्री है"।
"Z = A" का अर्थ है "Z, A की माता है"।
निम्नलिखित व्यंजक में A का Y से क्या संबंध है?
A * S = J @ M × Y

**Ans**  ✗ 1. A, Y के पिता है।

✗ 2. A, Y का भाई है।

✗ 3. A, Y का चचेरा/ममेरा/फुफेरा/मौसेरा भाई/बहन है।

✓ 4. A, Y की माता का भाई है।

**Q.17** Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13- Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
(23, 6, 35)
(13, 5, 23)

**Ans** ✗ 1. (24, 5, 33)

✓ 2. (25, 8, 41)

✗ 3. (16, 4, 20)

✗ 4. (13, 7, 28)

---

**Q.18** Six friends are sitting in a circle facing the centre. Sumit sits second to the right of Amit. Karan is an immediate neighbour of Param. Tony sits third to the right of Amit. Dharam is an immediate neighbour of Amit and Sumit. Karan sits second to the right of Sumit.
Who sits fourth to the right of Param?

**Ans** ✗ 1. Karan

✓ 2. Tony

✗ 3. Dharam

✗ 4. Sumit

---

**Q.19** Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.

1. Desperate
2. Desolate
3. Destruction
4. Desire
5. Descend
6. Destination

**Ans** ✗ 1. 5, 4, 1, 6, 2, 3

✗ 2. 5, 4, 1, 2, 6, 3

✓ 3. 5, 4, 2, 1, 6, 3

✗ 4. 5, 4, 2, 1, 3, 6

---

**Q.20** Which of the following numbers will replace the question mark (?) in the given series?

42, 53, 46, ?, 53, 66

**Ans** ✓ 1. 58

✗ 2. 48

✗ 3. 51

✗ 4. 55

---

**Q.21** Select the option that represents the letters which, when sequentially placed from left to right in the blanks below, will complete the letter series.
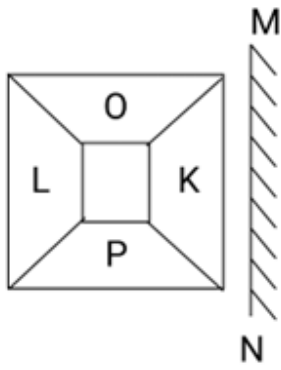_ L _ _ K S _ T U _ S L _ _ K
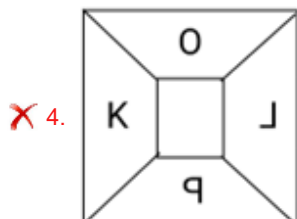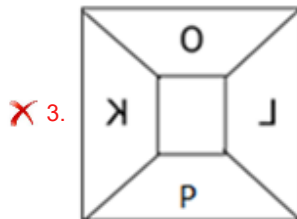
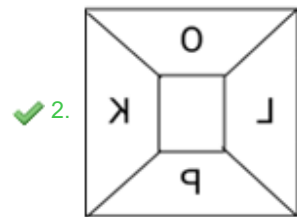**Ans** ✗ 1. K T U L U T S

✗ 2. U T S K T L U

✓ 3. S T U L K T U

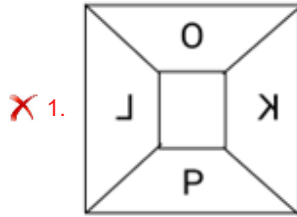✗ 4. L U S K T U K

**Q.22** Select the correct mirror image of the given pattern when the mirror is placed at 'MN' as shown below.

M

O

L        K

P

N

**Ans**

✗ 1.

O

⌐    Ӄ

P

✓ 2.

O

Ӄ    ⌐

b

✗ 3.

O

Ӄ    ⌐

P

✗ 4.

O

K    ⌐

b

Which figure from the given options would replace the question mark (?) if the following figure series were to be continued?



Ans



✔ 1.

✘ 2.

✘ 3.

✘ 4.

**Q.24** In this question, three statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follows/follow from the statements.
Statements:
I. All teas are coffees.
II. All coffees are beverages.
III. Some teas are drinks
Conclusions:
I. All teas are beverages.
II. No drink is a coffee.

**Ans**
✗ 1. Only conclusion II follows

✓ 2. Only conclusion I follows

✗ 3. Both conclusions I and II follow

✗ 4. Neither conclusion I nor II follows

---

**Q.25** Six students are sitting around a circular table facing the centre. A is an immediate neighbour of both E and D. E sits third to the right of C. D sits third to the left of F. E is an immediate neighbour of F. B sits second to the left of E. Who is the immediate neighbour of both A and C?

**Ans**
✗ 1. F

✓ 2. D

✗ 3. E

✗ 4. B

---

**Q.26** If '+' means '−', '−' means '×', '×' means '÷' and '÷' means '+', what will come in place of '?' in the following equation?
42 × 6 - 7 ÷ 13 + 28 = ?

**Ans**
✗ 1. 39

✗ 2. 27

✓ 3. 34

✗ 4. 43

---

**Q.27** उस विकल्प का चयन कीजिए, जो तीसरे शब्द से उसी प्रकार संबंधित है, जिस प्रकार दूसरा शब्द पहले शब्द से संबंधित है। (शब्दों को अर्थपूर्ण शब्दों के रूप में माना जाना चाहिए, और वह शब्द में अक्षरों की संख्या/व्यंजनों/स्वरों की संख्या के आधार पर एक-दूसरे से संबंधित नहीं होना चाहिए।)

इच्छा करना (Yearn) : लालसा करना (Crave) :: फुर्ती (Haste) : ?

**Ans**
✓ 1. तत्परता (Alacrity)

✗ 2. तरसना (Hanker)

✗ 3. विश्राम (Leisure)

✗ 4. विलंब (Delay)

---

**Q.28** Select the option that represents the correct order of the given words as they would appear in an English dictionary?
1.Flint
2.Flec
3.Flaw
4.Fleet
5.Flight

**Ans**
✗ 1. 3, 4, 2, 5, 1

✗ 2. 3, 5, 4, 2, 1

✓ 3. 3, 2, 4, 5, 1

✗ 4. 2, 3, 4, 5, 1

**Q.29** Select the option that is related to the fifth number in the same way as the first number is related to the second number and the third number is related to the fourth number.

**32 : 10 :: 24 : 12 :: 98 : ?**

**Ans**

✗ 1. 43

✗ 2. 25

✔ 3. 34

✗ 4. 24

**Q.30** P is to the north of Q. T is to the east of Q and S is to the east of P. S is to the north-east of T and south-west of R. What is the position of R with respect to Q? (All positions are arranged in GRID pattern)

**Ans**

✗ 1. South

✗ 2. South-west

✗ 3. East

✔ 4. North-east

**Q.31** Which of the given figures when placed in the 5th position would continue the series that is established by the first four figures?



**Ans**

✔ 1. 

✘ 2. 

✘ 3. 

✘ 4. 

**Q.32** Three of the following letter-clusters are alike in some manner and one is different. Select the one that is different.

**Ans**
✘ 1. FBEC

✘ 2. HDGE

✔ 3. JQAZ

✘ 4. OKNL

**Q.33** In a certain code language, 'COLD' is coded as '6428' and 'TIDE' is coded as '9673'. What is the code for 'D' in the given code language?
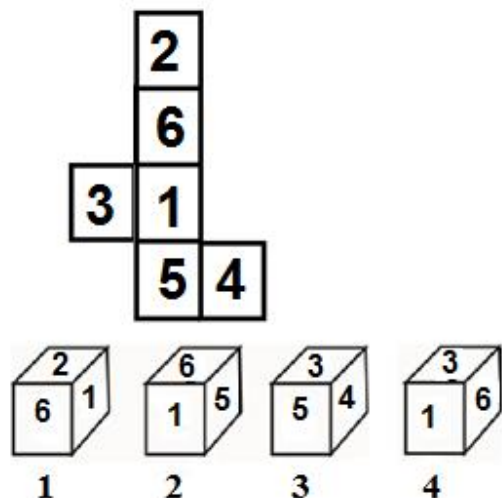
**Ans**
✘ 1. 2

✔ 2. 6

✘ 3. 9

✘ 4. 3

**Q.34** Which of the following terms will replace the question mark (?) in the given series?
**HKOE , KNOE , ? , QTOE , TWOE**

**Ans** ✗ 1. NQEO

✗ 2. NOQE

✗ 3. QNOE

✔ 4. NQOE

---

**Q.35** If the given sheet is folded to form a cube, which of the given figures is/are possible?
(The numbers are shown to indicate the sides only.)



**Ans** ✔ 1. Only 4

✗ 2. Only 3

✗ 3. Only 1 and 4

✗ 4. Only 2

---

**Q.36** Which two signs should be interchanged to make the given equation correct?

**729 × 9 – (56 – 6) × 5 ÷ 2 + 152 × 19 = 69**

**Ans** ✔ 1. × and ÷

✗ 2. ÷ and –

✗ 3. + and –

✗ 4. × and +

---

**Q.37** Given below are two statements and two conclusions. Take the statements to be true even if they are at variance with commonly known facts, and decide whether the conclusion(s) follow(s) the given statements.
**Statements:**
**All irons are coppers.**
**All coppers are aluminiums.**
**Conclusions:**
**I. Some aluminiums are irons**
**II. Some aluminiums are coppers**

**Ans** ✗ 1. Neither conclusion I nor II follows

✗ 2. Only conclusion II follows

✔ 3. Both the conclusions follow

✗ 4. Only conclusion I follows

**Q.38** Which of the following numbers will replace the question mark (?) in the given series

**32, 32, 32, 34, ?, 106, 530**

**Ans**
  ✗ 1. 96

  ✓ 2. 102

  ✗ 3. 34

  ✗ 4. 38

---

**Q.39** In a certain code language, 'STORY' is coded as '97' and 'PULL' is coded as '61'. How will 'INCOME' be coded in that language?
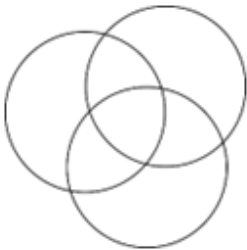
**Ans**
  ✗ 1. 54

  ✗ 2. 47

  ✓ 3. 59

  ✗ 4. 49
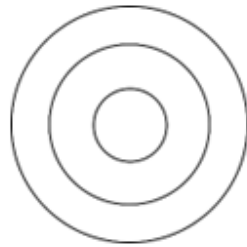
---

**Q.40** Select the Venn diagram that best illustrates the relationship between the following classes.
Europe, United Kingdom, London

**Ans**

✗ 1.

✓ 2.

✗ 3.
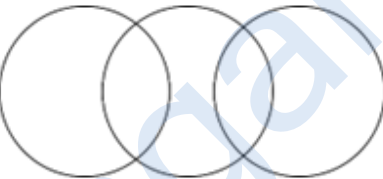
✗ 4.

---

**Q.41** If '+' means '−', '−' means '×', 'x' means '÷' and '÷' means '+', what will come in place of '?' in the following equation?
**45 - 3 ÷ 144 × 12 + 38 = ?**

**Ans**
  ✗ 1. 95

  ✗ 2. 123

  ✗ 3. 91

  ✓ 4. 109

**Q.42** If the given sheet is folded to form a cube, which of the given figures are possible? (The elements are shown to indicate the sides only.)
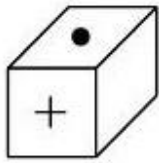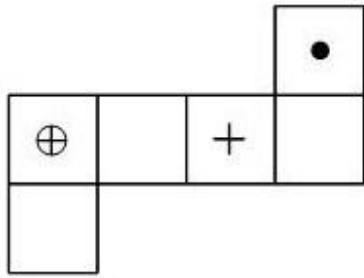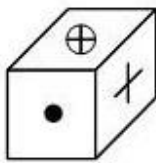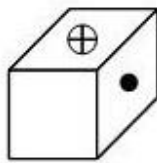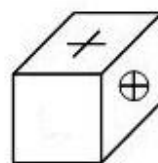


**Ans**

✗ 1. Only 2 and 3

✔ 2. Only 1 and 3

✗ 3. Only 2 and 4

✗ 4. Only 1 and 4

Select the figure that will come next in the following figure series.
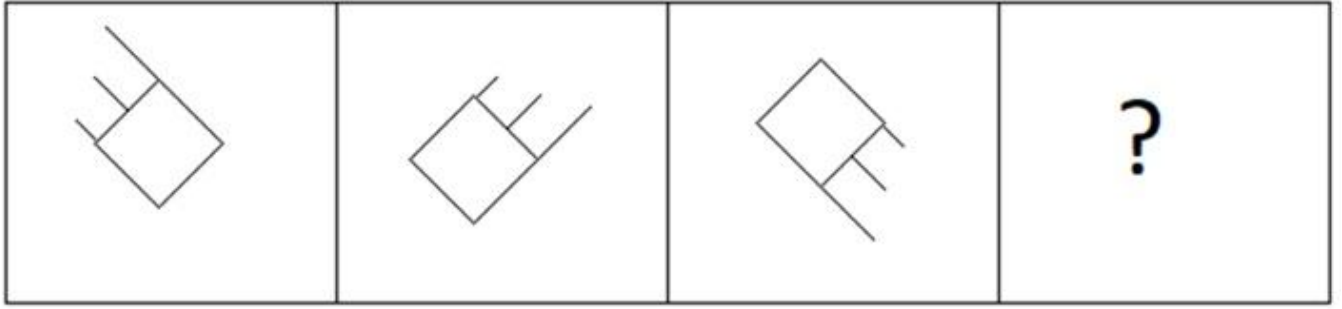


**Ans**

✗ 1.
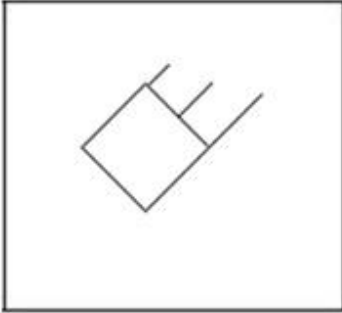


✔ 2.
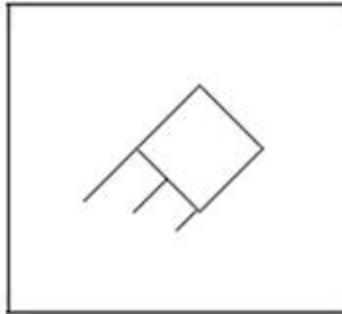


✗ 3.
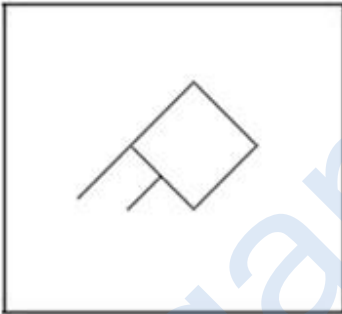


✗ 4.



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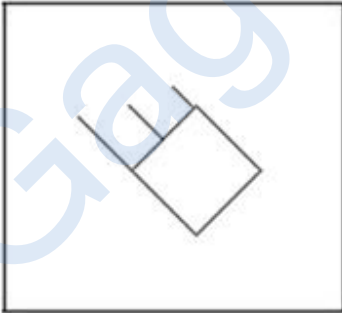
**Q.44** If '+' means '÷' , '−' means '+' , '×' means '−' and '÷' means '×', then what will come in place of (?) in the given equation?

8 ÷ 5 − 5 × 10 + 2 = ?

**Ans** ✗ 1. 35

✗ 2. 45

✔ 3. 40

✗ 4. 30

**Q.45** F is the brother of J. E is the sister of D. K is the sister of L. D is the son of L. J is the father of E. How is D related to F?

**Ans** ✗ 1. Wife

✗ 2. Brother's daughter

✓ 3. Brother's son

✗ 4. Sister's husband

**Q.46** Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)

(7, 52), (9, 84)

**Ans** ✗ 1. (11, 125)

✗ 2. (14, 196)

✗ 3. (8, 65)

✓ 4. (13, 172)

**Q.47** Which of the following numbers will replace the question mark (?) in the given series?
473, 517, 561, ?, 649, 693

**Ans** ✓ 1. 605

✗ 2. 598

✗ 3. 607

✗ 4. 603

**Q.48** Three of the following letter-clusters are alike in some manner and one is different. Select the one that is different.

**Ans** ✗ 1. SXTW

✓ 2. LOKP

✗ 3. KPLO

✗ 4. HMIL

**Q.49** Six characters A, B, C, 1, 2 and 3 are written on different faces of a dice. Two positions of this dice are shown in the figure. Find the character on the face opposite to C.



**Ans** ✗ 1. 2

✗ 2. B

✓ 3. 3

✗ 4. 1

**Q.50** If '+' means '–', '–' means '÷', '÷' means '×' and '×' means '+', then what will come in place of the (?) in the following equation?
15 × 30 + 15 – 3 ÷ 2 = ?

**Ans** ✗ 1. 40

✓ 2. 35

✗ 3. 15

✗ 4. 30

**Q.1** Hara Shankar Bhattacharya is a maestro of _____.

**Ans**
✖ 1. violin

✖ 2. santoor

✖ 3. sarangi

✔ 4. sitar

**Q.2** Which cell organelle appears as rounded or sausage-shaped structures under electron microscopy, measuring about 0.5-1.0 μm in diameter and 2-8 μm in length?

**Ans**
✔ 1. Mitochondria

✖ 2. Lysosomes

✖ 3. Plastids

✖ 4. Ribosomes

**Q.3** Which of the following dance forms originated in Southeastern India?

**Ans**
✖ 1. Kathak

✔ 2. Kuchipudi

✖ 3. Chhau

✖ 4. Sattriya

**Q.4** The term 'inning' is related to which of the following sports?

**Ans**
✖ 1. Basketball

✖ 2. Hockey

✖ 3. Volleyball

✔ 4. Kho-Kho

**Q.5** Which of the following industries was NOT in Schedule A of Industrial Policy 1956?

**Ans**
✔ 1. Mining of salt

✖ 2. Iron and steel

✖ 3. Air transport

✖ 4. Mineral oils

**Q.6** Which chemical element of Group 18 of the periodic table is produced by the natural radioactive decay of uranium in soils and rocks?

**Ans**
✖ 1. Neon

✔ 2. Radon

✖ 3. Oganesson

✖ 4. Krypton

**Q.7** अम्मनूर माधव चाकियार को निम्नलिखित में से किस नृत्य शैली में उनके योगदान के लिए पद्म श्री से सम्मानित किया गया था?

**Ans**
✔ 1. कुटियाट्टम

✖ 2. यक्षगान

✖ 3. कुचिपुड़ी

✖ 4. कथकली

**Q.8** केंद्र द्वारा राज्यपाल की नियुक्ति भारत के संविधान की किस विशेषता से संबंधित है?

**Ans** ✅ 1. एकात्मक प्रणाली (Unitary system)

❌ 2. संविधान की सर्वोच्चता (Supremacy of the Constitution)

❌ 3. निदेशक सिद्धांत (Directive Principles)

❌ 4. संघीय विशेषता (Federal feature)

---

**Q.9** Ashtadhyayi, is a Sanskrit treatise on grammar, written in the 6th to 5th century BCE by _____.

**Ans** ✅ 1. Panini

❌ 2. Vishvamitra

❌ 3. Agastya

❌ 4. Patanjali

---

**Q.10** Where is Red Lake found?

**Ans** ❌ 1. Japan

❌ 2. UK

✅ 3. USA

❌ 4. China

---

**Q.11** Which of the following is NOT included in inventory investment when calculating national income?

**Ans** ✅ 1. Change in sales during the year

❌ 2. Change in stock of semi-finished goods

❌ 3. Change in stock of raw material

❌ 4. Change in stock of finished goods

---

**Q.12** The star-shaped temples were built during the reign of:

**Ans** ✅ 1. Hoysala

❌ 2. Chalukaya

❌ 3. Badami

❌ 4. Cholas

---

**Q.13** The provision of fundamental duties in the Indian Constitution is inspired by _____.

**Ans** ❌ 1. the constitution of USA

❌ 2. the constitution of France

❌ 3. the constitution of Canada

✅ 4. the constitution of USSR

---

**Q.14** How many types of the amendment are mentioned by the Indian Constitution as per Article 368?

**Ans** ❌ 1. Four

✅ 2. Two

❌ 3. Five

❌ 4. Three

---

**Q.15** In the game of Ice hockey, during normal play how many players are there in each team on the ice at any one time to compete?

**Ans** ❌ 1. 5

❌ 2. 10

❌ 3. 12

✅ 4. 6

**Q.16** आप उस प्रकार की दवाओं को क्या कहते हैं, जो ग्राही (receptor) को स्विच ऑन करके प्राकृतिक संदेशवाहक (natural messenger) की प्रतिकृति करती हैं?

**Ans**
❌ 1. अवसादक (Depressants)

✅ 2. एगोनिस्ट (Agonist)

❌ 3. एंटागोनिस्ट (Antagonist)

❌ 4. प्रति-अवसादक (Antidepressants)

**Q.17** The 'Servants of India Society' was the brainchild of which of the following leaders?

**Ans**
✅ 1. Gopal Krishna Gokhale

❌ 2. BR Ambedkar

❌ 3. Lala Lajpat Rai

❌ 4. Chittaranjan Das

**Q.18** Which of the following is NOT an example of a minor industrial region of India?

**Ans**
✅ 1. Hugli region

❌ 2. Ambala-Amritsar region

❌ 3. Northern Malabar region

❌ 4. Durg-Raipur region

**Q.19** Siachen in Himalayas is:

**Ans**
✅ 1. a glacier

❌ 2. a dam

❌ 3. a national park

❌ 4. a lake

**Q.20** How many times has India won the ICC T20 Men's World Cup in cricket?

**Ans**
✅ 1. 1

❌ 2. 3

❌ 3. 4

❌ 4. 2

**Q.21** Which of the following is a roundworm?

**Ans**
✅ 1. Ascaris

❌ 2. Planaria

❌ 3. Liver fluke

❌ 4. Taenia

**Q.22** In which of the following languages is 'Childhood Days - A Memoir' by Satyajit Ray written?

**Ans**
❌ 1. Telugu

❌ 2. Hindi

✅ 3. Bengali

❌ 4. Kannada

**Q.23** 16वीं शताब्दी के दौरान बहमनी साम्राज्य के विघटन के परिणामस्वरूप निम्नलिखित में से कौन-सा अस्तित्व में नहीं आया?

**Ans**
✗ 1. अहमदनगर

✗ 2. गोलकुंडा

✗ 3. बीदर

✓ 4. गौर

---

**Q.24** निम्नलिखित में से कौन सा नृत्य रूप, अपनी उत्पत्ति को प्राचीन नृत्य सादिर अट्टम से जोड़ता है?

**Ans**
✗ 1. मोहिनीअट्टम

✓ 2. भरतनाट्यम्

✗ 3. कुचिपुड़ी

✗ 4. कथकली

---

**Q.25** The shape of a basketball court is a_____.

**Ans**
✗ 1. circle

✓ 2. rectangle

✗ 3. square

✗ 4. triangle

---

**Q.26** निम्नलिखित में से कौन-सा पद लॉर्ड कॉर्नवालिस द्वारा बंगाल में लागू की गई एक प्रणाली/व्यवस्था को इंगित करता है, जिसके तहत जमींदारों को एक निश्चित तिथि तक एक निश्चित राजस्व प्राप्त करने के लिए भूमि का कानूनी स्वामित्व प्रदान किया जाता था?

**Ans**
✗ 1. तालुकदारी व्यवस्था

✗ 2. रैयतवाड़ी व्यवस्था

✗ 3. महलवाड़ी व्यवस्था

✓ 4. स्थायी बंदोबस्त

---

**Q.27** When was the Atmiya Sabha founded to attack the evils within Hinduism?

**Ans**
✗ 1. 1839

✓ 2. 1814

✗ 3. 1828

✗ 4. 1845

---

**Q.28** What percentage of jobs in India are at risk of automation, as per World Bank data, 2016?

**Ans**
✗ 1. 40%

✗ 2. 77%

✓ 3. 69%

✗ 4. 55%

---

**Q.29** The Eastern Ghats stretch from the _____ to the Nigiris in the south.

**Ans**
✗ 1. Godavari Valley

✓ 2. Mahanadi Valley

✗ 3. Damodar Valley

✗ 4. Son Valley

**Q.30** How many fundamental duties are listed in the Indian Constitution as of 2022?

**Ans**
- ✗ 1. 13
- ✗ 2. 10
- ✗ 3. 12
- ✔ 4. 11

**Q.31** The Himalayas have been divided on the basis of regions from west to east. The correct order of regions from west to east is:

**Ans**
- ✗ 1. Punjab Himalayas, Nepal Himalayas, Kumaon Himalayas and Assam Himalayas
- ✔ 2. Punjab Himalayas, Kumaon Himalayas, Nepal Himalayas and Assam Himalayas
- ✗ 3. Punjab Himalayas, Kumaon Himalayas, Assam Himalayas and Nepal Himalayas
- ✗ 4. Punjab Himalayas, Nepal Himalayas, Assam Himalayas and Kumaon Himalayas

**Q.32** Under which Article of the Indian Constitution shall the executive power of the Union be vested in the President?

**Ans**
- ✗ 1. Article 55
- ✗ 2. Article 56
- ✔ 3. Article 53
- ✗ 4. Article 58

**Q.33** The _____ birth rate indicates the number of live births occurring during the year per 1000 population estimated at midyear.

**Ans**
- ✗ 1. neutral
- ✗ 2. positive
- ✗ 3. negative
- ✔ 4. crude

**Q.34** 1 kilowatt is equivalent to:

**Ans**
- ✗ 1. 7200 KJ/h
- ✔ 2. 3600 KJ/h
- ✗ 3. 7200 Joule
- ✗ 4. 3600 calorie

**Q.35** When was the 8th round of the General Agreement on Tariffs and Trade (GATT), the so-called 'Uruguay Round' which led to the establishment of World Trade Organization (WTO) completed?

**Ans**
- ✗ 1. 1992
- ✗ 2. 1993
- ✗ 3. 1991
- ✔ 4. 1994

**Q.36** Jagjit Singh is associated with which form of singing?

**Ans**
- ✗ 1. Dhrupad
- ✔ 2. Ghazal
- ✗ 3. Thumri
- ✗ 4. Tappa

**Q.37** ममिता (Maimata) निम्नलिखित में से किस राज्य का लोकप्रिय लोक नृत्य है?

**Ans**
✗ 1. पंजाब

✓ 2. त्रिपुरा

✗ 3. हरियाणा

✗ 4. उत्तराखंड

---

**Q.38** When was Khandesh merged into the Mughal empire by Akbar?

**Ans**
✗ 1. 1595

✓ 2. 1601

✗ 3. 1597

✗ 4. 1605

---

**Q.39** In which type of rainfall, winds move out from a high-pressure area with wind direction clockwise in the northern hemisphere, and anti-clockwise in the southern hemisphere?

**Ans**
✗ 1. Cyclones

✗ 2. Convection

✓ 3. Anticyclone

✗ 4. Orography

---

**Q.40** Who among the following had written the novel Coolie, that concentrated on social misery caused by inhumanity?

**Ans**
✗ 1. RK Narayan

✓ 2. Mulk Raj Anand

✗ 3. VS Naipal

✗ 4. Vijay Tendulkar

---

**Q.41** Which Article of the Constitution of India states that the Prime Minister is appointed by the President of India?

**Ans**
✗ 1. Article 74

✗ 2. Article 76

✗ 3. Article 73

✓ 4. Article 75

---

**Q.42** निम्न में से कौन-सा विकल्प लघु बचतों का उदाहरण नहीं है?

**Ans**
✓ 1. म्यूचुअल फंड (Mutual Funds)

✗ 2. किसान विकास पत्र (Kisan Vikas Patras)

✗ 3. राष्ट्रीय बचत प्रमाणपत्र (National Savings Certificates)

✗ 4. डाकघर जमा (Post Office Deposits)

---

**Q.43** Vultures are:

**Ans**
✓ 1. carnivores

✗ 2. decomposers

✗ 3. herbivores

✗ 4. omnivores

**Q.44** The President of which of the following countries was invited as the Chief Guest for the Republic Day parade on 26 January 2020?

**Ans**
✗ 1. Australia

✗ 2. Indonesia

✓ 3. Brazil

✗ 4. New Zealand

**Q.45** In which of the following years did the government opt for a plan holiday after the seventh five-year plan?

**Ans**
✗ 1. From 1989 to 1991

✓ 2. From 1990 to 1992

✗ 3. From 1992 to 1993

✗ 4. From 1991 to 1993

**Q.46** By observing the motion of objects on an inclined plane _____ deduced that objects move with a constant speed when no force acts on them.

**Ans**
✗ 1. Archimedes

✗ 2. Johannes Kepler

✓ 3. Galileo

✗ 4. Michael Faraday

**Q.47** From the given options, choose the one which is NOT a product of the decomposition reaction of Lead nitrate.

**Ans**
✗ 1. Oxygen

✗ 2. Lead oxide

✗ 3. Nitrogen dioxide

✓ 4. Nitrogen

**Q.48** चाद शुक्र (Chad Sukra) त्यौहार _____ की जयंतिया जनजाति द्वारा मनाया जाता है।

**Ans**
✗ 1. असम

✗ 2. पंजाब

✗ 3. झारखण्ड

✓ 4. मेघालय

**Q.49** Which radioactive element with atomic number 43 in the modern periodic table is unstable, and the half-lives of all its isotopes are relatively short, from 4.2 million years to 5.0 s?

**Ans**
✗ 1. Promethium

✗ 2. Nobelium
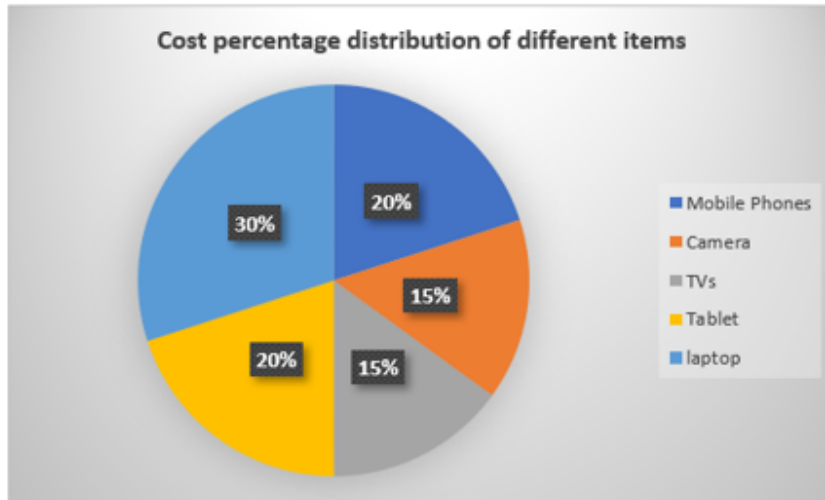
✓ 3. Technetium

✗ 4. Neptunium

**Q.50** _____ भूमि नियमित रूप से फसल के लिए उपयुक्त है।

**Ans**
✓ 1. कृष्य (Arable)

✗ 2. बंजर (Barren)

✗ 3. सीमांत (Marginal)

✗ 4. नगरीय (Urban)

**Q.1** Study the given graph and answer the question that follows.
The following graph shows the distribution of the cost percentage of different items.



Cost percentage distribution of different items

If a person purchased all the items for ₹3,00,000, then the cost of a TV is less than that of a laptop by:

**Ans**   ✗ 1. ₹55,000

   ✔ 2. ₹45,000

   ✗ 3. ₹50,000

   ✗ 4. ₹40,000

**Q.2** In a ∆ABC, the bisectors of angle ABC and angle ACB intersect each other at point O. If the angle BOC is 125°, then the angle BAC is equal to:

**Ans**   ✗ 1. 82°

   ✗ 2. 78°

   ✗ 3. 75°

   ✔ 4. 70°

**Q.3** What annual instalment (in ₹) will discharge a debt of ₹9,429 due in three years at 12.25% simple interest per annum? [Note: Instalments will be paid at the end of Year 1, Year 2 and Year 3.]

**Ans**   ✔ 1. 2800

   ✗ 2. 2700

   ✗ 3. 2,840

   ✗ 4. 2760

**Q.4** Simplify the given expression.

$(1 - 2x)^2 - (1 + 2x)^2$

**Ans**   ✔ 1. $-8x$

   ✗ 2. $8x$

   ✗ 3. $2 + 8x^2$

   ✗ 4. $-(2 + 8x^2)$

**Q.5** Find the HCF of 78, 84, 90 and 112.

**Ans**
  ✗ 1. 7

  ✗ 2. 1

  ✗ 3. 5

  ✓ 4. 2

---

**Q.6** The height and the radius of the base of a right circular cone are in the ratio of 12 : 5. If its volume is 314 cm$^3$, then what is the slant height of the cone? (Use π = 3.14)

**Ans**
  ✗ 1. 11 cm

  ✗ 2. 14 cm

  ✗ 3. 12 cm

  ✓ 4. 13 cm

---

**Q.7** In a circle, chords AB and CD intersect internally at E. If CD = 18 cm, DE = 5cm, AE = 13 cm, then the length of BE is:

**Ans**
  ✓ 1. 5 cm

  ✗ 2. 4 cm

  ✗ 3. 3 cm

  ✗ 4. 7 cm

---

**Q.8** Study the given bar graph carefully to answer the question that follows.
Marks obtained by four students in Mid-I and Mid-II.
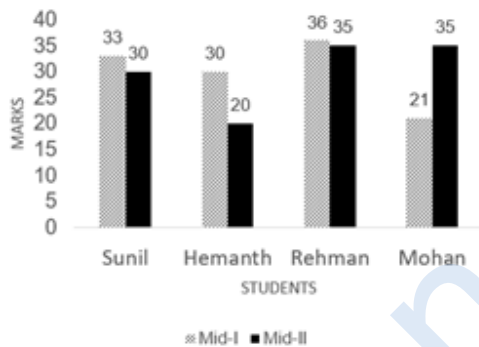


Marks obtain by Hemanth in Mid-I are what percentage of the total marks obtained by all the students in Mid-I?

**Ans**
  ✗ 1. 15%

  ✗ 2. 30%

  ✗ 3. 20%

  ✓ 4. 25%

---

**Q.9** A right square pyramid having lateral surface area is 624 cm$^2$. If the length of the diagonal of the square is 24 $\sqrt{2}$, then the volume of the pyramid is:

**Ans**
  ✗ 1. 780 cm$^3$

  ✗ 2. 1150 cm$^3$

  ✗ 3. 1083 cm$^3$

  ✓ 4. 960 cm$^3$

---

**Q.10** Find the least number which is exactly divisible by 20, 28, 34, 60 and 75.

**Ans**
  ✗ 1. 34500

  ✗ 2. 35900

  ✓ 3. 35700

  ✗ 4. 36220

**Q.11** A boy goes from home to school at a speed of 30 km/h and returns back at a speed of 70 km/h. What is his average speed for the journey?

**Ans** ✗ 1. 48 km/h

✗ 2. 38 km/h

✓ 3. 42 km/h

✗ 4. 36 km/h

**Q.12** An item with a marked price of ₹z was sold for ₹6,622, after a discount of 12% was offered. What was the value of z?

**Ans** ✗ 1. ₹7,575

✗ 2. ₹7,425

✓ 3. ₹7,525

✗ 4. ₹7,500

**Q.13** Nikunj goes 4 kilometres against the current of a stream in 1 hour, and 2 kilometres along the current in 15 minutes. How long will it take him to go 7 kilometres in stationary water?

**Ans** ✗ 1. 1 hour 20 minutes

✗ 2. 1 hour 5 minutes

✗ 3. 1 hour 15 minutes

✓ 4. 1 hour 10 minutes

**Q.14** The following table shows the income of a company in a year from various sectors:

| Sectors | Finance | Communication | Production | Sales | Transportation |
|---|---|---|---|---|---|
| Amount (in lakh ₹) | 85 | 60 | 67 | 115 | 75 |

What is the difference (in lakh ₹) between the income from the maximum earning sector and the minimum earning sector?

**Ans** ✗ 1. 30

✓ 2. 55

✗ 3. 40

✗ 4. 48

**Q.15** The table below shows the number of laptops sold by the 4 sellers and the ratio of Brand1 laptops sold to Brand 2 laptops sold.

| Seller | Total laptops sold | Brand1 laptops sold: Brand2 laptops sold |
|---|---|---|
| A | 4000 | 3 : 1 |
| B | 6000 | 2 : 1 |
| C | 8000 | 5 : 3 |
| D | 5000 | 1 : 4 |

The number of Brand1 laptops sold by A seller is how many more than the number of Brand2 laptops sold by B seller?

**Ans** ✗ 1. 1200

✓ 2. 1000

✗ 3. 600

✗ 4. 800

**Q.16** The pie chart below shows the spendings of a state on various sports during a particular year:
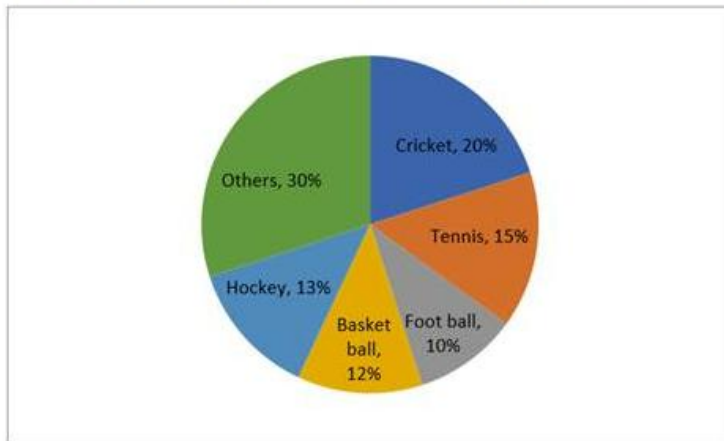


If the total amount spent on sports during the year was ₹75,00,000 then how much (in ₹) was spent on cricket and hockey together?

**Ans**
✗ 1. ₹26,80,000

✗ 2. ₹18,75,000

✗ 3. ₹21,55,000

✓ 4. ₹24,75,000

**Q.17** In an election between two candidates, 20% of the voters on the voters list did not cast their votes and 80 voters cast their ballot papers blank. The winner secured 45% of all the voters in the list and he got 280 votes more than his rival. The number of voters on the list was:

**Ans**
✓ 1. 2000

✗ 2. 2800

✗ 3. 2500

✗ 4. 1500

**Q.18**

If $\cos A = \dfrac{1}{2}$, $0 \le A \le 90°$, then what is the value of $\sin(180 - A)$?

**Ans**

✗ 1. $\dfrac{1}{\sqrt{3}}$

✓ 2. $\dfrac{\sqrt{3}}{2}$

✗ 3. $1$

✗ 4. $\dfrac{1}{2}$

**Q.19** Find the LCM of 73 and 657.

**Ans**
✗ 1. 146

✓ 2. 657

✗ 3. 365

✗ 4. 73

**Q.20** The value of $\dfrac{1\frac{1}{2} \div 3\frac{1}{4} + \frac{1}{2} \div \frac{13}{14} + \frac{1}{5}}{\frac{1}{5} \times 3\frac{1}{2} - \frac{1}{3} \div 1\frac{3}{4} \times 3\frac{1}{2}}$ is:

**Ans**

✗ 1. 38

✗ 2. 33

✔ 3. 36

✗ 4. 40

---

**Q.21** The total surface area of a solid hemisphere is 4158 cm². Find its volume (in cm³).

**Ans**

✗ 1. 9702

✔ 2. 19404

✗ 3. 1848

✗ 4. 462

---

**Q.22** If interest be compounded half-yearly, then find the compound interest on ₹8,000 at 20% p.a. for 1 year.

**Ans**

✗ 1. ₹1,685

✔ 2. ₹1,680

✗ 3. ₹1,675

✗ 4. ₹1,690

---

**Q.23** If $\sin A = \dfrac{2}{3}$, then find the value of $(7 - \tan A)(3 + \cos A)$.

**Ans**

✗ 1. $\dfrac{61}{3} + \dfrac{17}{\sqrt{5}}$

✗ 2. $\dfrac{61}{3} - \dfrac{17}{3\sqrt{5}}$

✔ 3. $\dfrac{61}{3} + \dfrac{17}{3\sqrt{5}}$

✗ 4. $\dfrac{61}{3\sqrt{5}} + \dfrac{17}{3}$

---

**Q.24** The average weight of 8 students is 48 kg. If four students of average weight 44 kg and four students of average weight 58 kg is also added, then find the average weight of 16 students.

**Ans**

✔ 1. 49.5 kg

✗ 2. 49 kg

✗ 3. 48.5 kg

✗ 4. 48 kg

---

**Q.25** At 7: 30 P.M. the owner of a Cycle noticed that a thief is taking away his cycle from his home and is cycling in a particular direction at an estimated speed of 10 km per hour. He informed the police about the theft and the policeman started from the same point, half an hour later than the time of the theft but with a speed of 12 km per hour. At what time will Policeman catch the thief?

**Ans**

✗ 1. 10:00 P.M.

✔ 2. 10:30 P.M.

✗ 3. 10:45 P.M.

✗ 4. 9: 30 P.M.

**Q.26** If the radius of two circles be 6 cm and 9 cm and the length of the transverse common tangent be 20 cm, then find the distance between the two centres.

**Ans**

✗ 1. 27 cm

✗ 2. 22 cm

✗ 3. 24 cm

✓ 4. 25 cm

**Q.27** A cylinder has some water in it at a height of 16 cm. If a sphere of radius 9 cm is put into it, then find the rise in the height of the water if the radius of the cylinder is 12 cm.

**Ans**

✗ 1. 6 cm

✗ 2. 8.75 cm

✗ 3. 8 cm

✓ 4. 6.75 cm

**Q.28** A can do $\frac{1}{5}$ of a piece of work in 20 days, B can do 30% of the same work in 36 days, while C can do 80% of the same work in 160 days. B and C together started and worked for x days. After x days B left the work, and A joined C and both completed the remaining work in (x − 41) days. If the ratio between the work done by (B + C) together to the work done by (A + C) together is 19 : 6, then what fraction of the same work can be completed by C alone in 2x days?

**Ans**

✓ 1. $\frac{57}{100}$

✗ 2. $\frac{19}{25}$

✗ 3. $\frac{13}{25}$

✗ 4. $\frac{6}{25}$

**Q.29** What is the HCF of $(x^6 + 1)$ and $(x^4 - 1)$ ?

**Ans**

✓ 1. $(1 + x^2)$

✗ 2. $(1 + x)$

✗ 3. 1

✗ 4. $(1 - x^2)$

**Q.30** In a circle of radius 42 cm, an arc subtends an angle of 60° at the centre. Find the length of the arc.

$(\text{Take } \pi = \frac{22}{7})$

**Ans**

✗ 1. 22 cm

✓ 2. 44 cm

✗ 3. 21 cm

✗ 4. 42 cm

**Q.31** If 2 men or 4 women can build a wall in 34 days, in how many days can 6 men and 5 women build the same wall?

**Ans**
✔ 1. 8

✘ 2. 16

✘ 3. 24

✘ 4. 12

**Q.32** Study the given table and answer the question that follows.
The table shows data of population and literacy/illiteracy rate among the population in three different villages.

| Village | Respective ratio between number of males and females | Percentage of literates (Males and females) out of total population | Number of illiterates (Males and females) out of total population |
|---------|------|------|------|
| P | 2 : 5 | 45 | 380 |
| Q | 3 : 7 | 65 | 270 |
| R | 1 : 3 | 80 | 150 |

The number of illiterates in village R is what percentage less than that in village P?

**Ans**
✘ 1. $60\dfrac{11}{19}\%$

✘ 2. $60\dfrac{8}{19}\%$

✘ 3. $60\dfrac{9}{19}\%$

✔ 4. $60\dfrac{10}{19}\%$

**Q.33** Three numbers are in the ratio of 5 : 7 : 9 and their LCM is 34,650. Their HCF is:

**Ans**
✔ 1. 110

✘ 2. 315

✘ 3. 99

✘ 4. 55

**Q.34** The salary of Arpit fell by 5% after 1 year and further fell by 8% after the second year due to bad performance. Initially, his salary was ₹80,000. What is his current salary (in ₹)?

**Ans**
✔ 1. 69920

✘ 2. 65720

✘ 3. 69620

✘ 4. 70920

**Q.35** Study the given table and answer the question that follows.
The table shows the number of students studying in 6 different classes of 6 different schools.

| Schools | V | VI | VII | VIII | IX | X |
|---|---|---|---|---|---|---|
| P | 152 | 160 | 145 | 156 | 147 | 144 |
| Q | 148 | 166 | 150 | 155 | 157 | 143 |
| R | 161 | 152 | 140 | 145 | 143 | 165 |
| S | 159 | 142 | 149 | 140 | 142 | 168 |
| T | 147 | 144 | 158 | 163 | 154 | 150 |
| U | 150 | 160 | 162 | 160 | 160 | 140 |
| Total | 917 | 924 | 904 | 919 | 903 | 910 |

**Which class has the minimum number of students from all schools together?**

**Ans** ✗ 1. VII

✔ 2. IX

✗ 3. X

✗ 4. VIII

**Q.36** Study the given graph and answer the question that follows.
The graph shows data related to number of students enrolled for a vocational course in two institutes (X and Y) during three years.
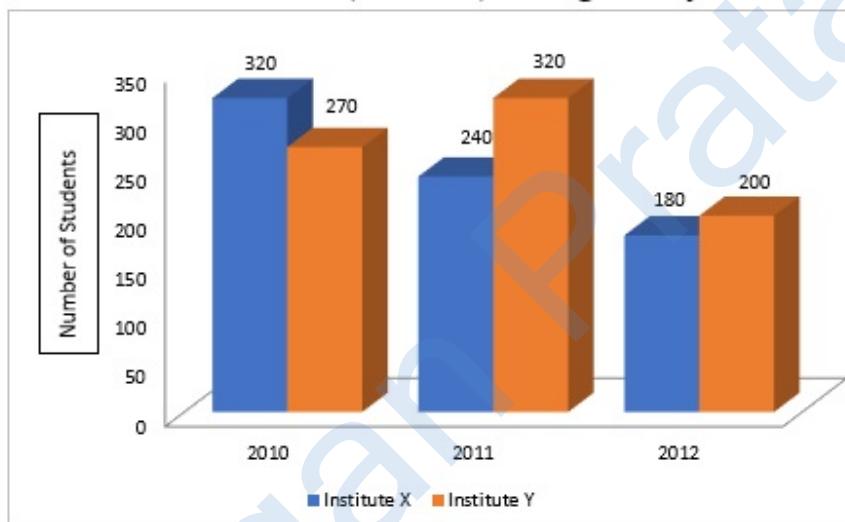


What is the difference between the average number of students enrolled in institute X in 2010 and 2011 and that in institute Y in 2011 and 2012?

**Ans** ✗ 1. 15

✔ 2. 20

✗ 3. 18

✗ 4. 22

**Q.37**

If $\sin A = \dfrac{\sqrt{3}}{2}$, $0 < A < 90°$, then find the value of $2(\operatorname{cosec} A + \cot A)$.
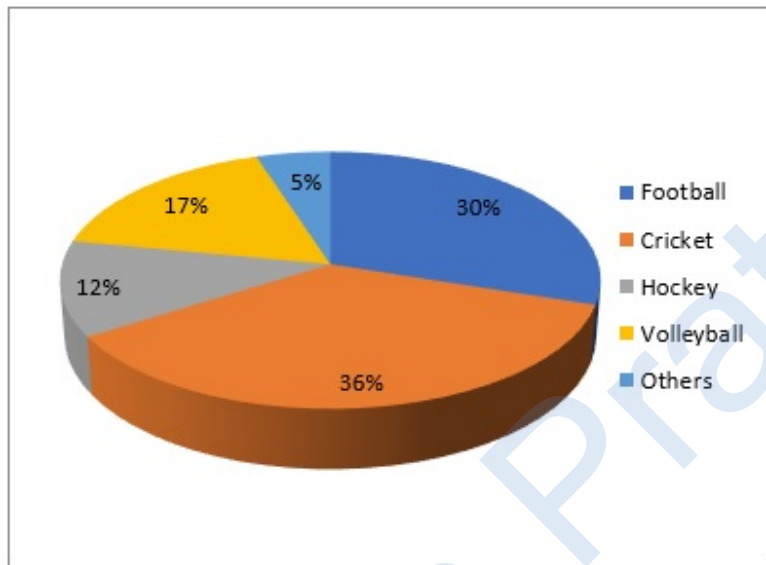
**Ans**

✗ 1. $\dfrac{1}{\sqrt{3}}$

✗ 2. $\sqrt{3}$

✗ 3. $\dfrac{2}{\sqrt{3}}$

✔ 4. $2\sqrt{3}$

---

**Q.38**

The given pie-chart represents the survey report on favourite games of a group of young people.



If a total of 4980 people were surveyed, then what is the central angle produced by the sector indicating football?

**Ans**

✗ 1. 100°

✔ 2. 108°

✗ 3. 105°

✗ 4. 90°

---

**Q.39** A and B complete a work in 24 and 30 days, respectively, working 10 hours per day. The work is to be done in two shifts. The morning shift is for 6 hours and the evening shift is for 4 hours. On the first day, A works in the morning and B works in the evening, and they interchange their shifts every day. On which day did the work get completed?

**Ans**

✗ 1. 24th day

✔ 2. 27th day

✗ 3. 30th day

✗ 4. 21st day

---

**Q.40** Two trains Mumbai Rajdhani and Kissan Express of lengths 850 m and 700 m are 1050 m apart, and are running on parallel tracks towards each other. Mumbai Rajdhani is running at 62 km/h and Kissan Express is running at 55 km/h. In how much time (in sec) will the trains cross each other?

**Ans**

✔ 1. 80

✗ 2. 70

✗ 3. 75

✗ 4. 45

**Q.41** If $\sin \beta = \frac{1}{3}$, $(\sec \beta - \tan \beta)^2$ is equal to:

Ans

✗ 1. $\dfrac{1}{3}$

✔ 2. $\dfrac{1}{2}$

✗ 3. $\dfrac{2}{3}$

✗ 4. $\dfrac{3}{4}$

**Q.42** A shopkeeper increases the cost price of an item by 50% and offers a discount of 40% on this marked price. What is his loss percentage?

Ans

✗ 1. 15%

✔ 2. 10%

✗ 3. 5%

✗ 4. 20%

**Q.43** Mihir buys a book for ₹625. However, because of certain urgency, he sells it for ₹550. Find his loss percentage.

Ans

✗ 1. 10%

✔ 2. 12%

✗ 3. 14%

✗ 4. 15%

**Q.44** If $a + b + c = 5$ and $ab + bc + ca = 7$, then the value of $a^3 + b^3 + c^3 - 3abc$ is:

Ans

✔ 1. 20

✗ 2. 25

✗ 3. 15

✗ 4. 30

**Q.45** The sides of a rectangle are in the ratio of 3 : 8 and its area is 1944 cm$^2$. What is its perimeter?

Ans

✗ 1. 189 cm

✗ 2. 208 cm

✗ 3. 308 cm

✔ 4. 198 cm

**Q.46** Rupu's income is 20% more than Madhu's income. Madhu's income is less than Rupu's income by:

Ans

✗ 1. $17\frac{2}{3}\%$

✔ 2. $16\frac{2}{3}\%$

✗ 3. $18\frac{2}{3}\%$

✗ 4. 20%

**Q.47** Which is the largest number that divides each of 1036, 1813 and 3885 without leaving any remainder?

**Ans**
✔ 1. 259

✘ 2. 111

✘ 3. 333

✘ 4. 37

---

**Q.48** The mean proportional between 0.03 and 0.0003 is:

**Ans**
✘ 1. 0.0013

✔ 2. 0.003

✘ 3. 0.0003

✘ 4. 0.033

---

**Q.49** Find the fourth proportional to 0.48, 0.84 and 32.

**Ans**
✘ 1. 34

✘ 2. 65

✘ 3. 43

✔ 4. 56

---

**Q.50** Mahesh agreed to sell rice with 24% loss, as the rice got rotten. However, he cheated customers and gave only 19 gm of rice in place of 50 gm of rice. What is the percentage of his profit or loss?

**Ans**
✘ 1. 100% loss

✘ 2. $\frac{100}{3}$% profit

✔ 3. 100% profit

✘ 4. $\frac{100}{3}$% loss

---

**Q.1** Identify the option that rectifies the spelling of the incorrectly spelt word in the given sentence.

Students should have a good vocabulary to write an essay efectively.

**Ans**
✘ 1. Gud

✘ 2. Voicabulary

✘ 3. Wriite

✔ 4. Effectively

---

**Q.2** Select the most appropriate option that can substitute the underlined word which has been incorrectly spelt.
Mrs. Lal taught me English gramar.

**Ans**
✘ 1. gramerr

✔ 2. grammar

✘ 3. gramarr

✘ 4. gramer

**Q.3** The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

The students / are expected / to come / in the right time.

**Ans** ✗ 1. are expected

✗ 2. The students

✓ 3. in the right time

✗ 4. to come

**Q.4** Select the most appropriate option that can substitute the underlined segment in the given sentence.

The decision to engage in an armed conflict is <u>tacit</u>.

**Ans** ✗ 1. regretted by everyone

✗ 2. ineffective completely

✗ 3. incomprehensible for some

✓ 4. implied without being stated

**Q.5** Select the most appropriate option that can substitute the underlined segment in the given sentence.
You can become <u>confident to speak</u> English within one year.

**Ans** ✗ 1. convinced to speaking

✓ 2. confident in speaking

✗ 3. reassured of speaking

✗ 4. assured of speaking

**Q.6** Select the most appropriate option that can substitute the underlined segment in the given sentence.
We all should respect <u>each other.</u>

**Ans** ✗ 1. all of us

✗ 2. all other

✗ 3. every other

✓ 4. one another

**Q.7** Select the most appropriate synonym of the highlighted word in the given sentence.

The plane crash was a harrowing experience for everyone involved.

**Ans** ✗ 1. Exterminate

✗ 2. Awesome

✗ 3. Sad

✓ 4. Excruciating

**Q.8** Select the most appropriate synonym of the given word.

Reminiscence

**Ans** ✗ 1. Harsh

✗ 2. Oblivion

✓ 3. Remembrance

✗ 4. Benevolence

**Q.9** Select the most appropriate meaning of the given idiom.

**Come what may**

Ans
✔ 1. No matter what happens

✘ 2. To get frightened

✘ 3. Meeting someone

✘ 4. To be among the latest

**Q.10** The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

**My elder brother / yesterday had took / my Facebook password.**

Ans
✘ 1. my Facebook password

✔ 2. yesterday had took

✘ 3. No error

✘ 4. My elder brother

**Q.11** The following sentence has been split into four segments. Identify the segment that contains an error.

**Will Ramya / had completed / that work / by 2025?**

Ans
✘ 1. by 2025

✘ 2. that work

✔ 3. had completed

✘ 4. Will Ramya

**Q.12** Select the most appropriate ANTONYM of the underlined word in the given sentence.

**After losing his job and his home, he found himself destitute and living on the streets.**

Ans
✘ 1. disturbed

✔ 2. affluent

✘ 3. glorious

✘ 4. ridiculous

**Q.13** Select the INCORRECTLY spelt word in the given sentence.

**It is beyond my cognative capacity to solve the mathematical problems.**

Ans
✘ 1. problems

✘ 2. capacity

✔ 3. cognative

✘ 4. mathematical

**Q.14** Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'
**The unexpected turn beside the project put the company in a big financial crisis.**

Ans
✘ 1. No substitution required

✘ 2. between the project

✘ 3. until the project

✔ 4. in the project

**Q.15** Select the option that best expresses the meaning of the underlined idiom.
Christy should discuss this with her <u>face to face</u>.

**Ans** ✗ 1. Remained normal and realistic

✗ 2. Almost always

✓ 3. With another person in their presence rather than, say, by phone or letter

✗ 4. Come to fully accept or understand something

**Q.16** Select the INCORRECTLY spelt word from the underlined words in the following sentence.
It is important to see school <u>holistically</u>, it is not a set of atomic items of rooms, library, assembly halls, canteen and playgrounds; it is all of these but in <u>symbiotic</u> relationship with each other, the <u>contors</u> of which are often far too obvious and often simply <u>mysterious</u>.

**Ans** ✓ 1. contors

✗ 2. mysterious

✗ 3. holistically

✗ 4. symbiotic

**Q.17** Select the most appropriate ANTONYM of the underlined word.
He is so <u>stingy</u> that I have never seen him spending money on basic necessities.

**Ans** ✗ 1. Obnoxious

✓ 2. Extravagant

✗ 3. Indecent

✗ 4. Wicked

**Q.18** Select the most appropriate meaning of the underlined word.
She has no <u>desire</u> for money.

**Ans** ✗ 1. Despise

✓ 2. Wish

✗ 3. Disgust

✗ 4. Care

**Q.19** Select the most appropriate meaning of the given idiom.
Apple of discord

**Ans** ✗ 1. Centre of attraction

✗ 2. Distant love

✗ 3. Practical

✓ 4. Bone of contention

**Q.20** Select the option that can be used as a one-word substitute for the given group of words.

Centre of public attention

**Ans** ✓ 1. Limelight

✗ 2. Ambiguity

✗ 3. Fuzziness

✗ 4. Obscurity

**Q.21** Select the most appropriate meaning of the given idiom.
Break a leg

**Ans** ✗ 1. To hurt someone

✓ 2. To wish someone good luck

✗ 3. To love someone

✗ 4. To avoid someone

**Q.22** Select the most appropriate meaning of the given idiom.

Fit as a fiddle

**Ans** ✅ 1. In good health

❌ 2. To ignore what someone is saying

❌ 3. To betray a close person

❌ 4. At the last moment

**Q.23** Select the most appropriate synonym of the given word.
Rehabilitate

**Ans** ❌ 1. Absolve

❌ 2. Develop

❌ 3. Decline

✅ 4. Reinstall

**Q.24** Select the option that can be used as a one-word substitute for the given phrase.

One who goes from place to place, begging

**Ans** ❌ 1. Malleable

✅ 2. Mendicant

❌ 3. Meticulous

❌ 4. Misogamist

**Q.25** Select the most appropriate meaning of the underlined phrase.
She can't underline make up her mind underline where to go for her summer vacation.

**Ans** ❌ 1. Decide how to do her makeup

❌ 2. Decide on a suitable parlour

✅ 3. Decide between alternatives or come to a decision

❌ 4. Engage her mind in creative activities

**Q.26** Select the most appropriate option that can substitute the underlined segment in the given sentence.

The book narrated the athlete's underline prowess underline in a lucid manner.

**Ans** ❌ 1. difficult situation

❌ 2. affluent days

✅ 3. exceptional mastery

❌ 4. refined arguments

**Q.27** Select the most appropriate meaning of the given idiom.
To hit the nail on the head

**Ans** ❌ 1. To be indecisive

❌ 2. To miss an opportunity

❌ 3. To hit something accurately

✅ 4. To express an idea with great precision

**Q.28** Select the most appropriate option that can substitute the underlined segment in the given sentence.

Rajib's habit of underline sneering at the beliefs of others underline often hurts others' sentiments.

**Ans** ✅ 1. cynicism

❌ 2. cleverness

❌ 3. manipulation

❌ 4. certainty

**Q.29** Select the most appropriate meaning of the underlined word.
She has become a <u>familiar</u> figure in the world of politics.

**Ans** ✗ 1. Legend

✓ 2. Known

✗ 3. Elevated

✗ 4. Fancy

**Q.30** Select the most appropriate synonym of the word 'factual' in the given sentence and choose the correct option.

The scientist's hypothesis was based on empirical evidence and rigorous experimentation.

**Ans** ✗ 1. Evidence

✗ 2. Hypothesis

✓ 3. Empirical

✗ 4. Rigorous

**Q.31** The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.
We will / have been know the result / of the CAT exam by next week.

**Ans** ✓ 1. have been know the result

✗ 2. No error

✗ 3. of the CAT exam by next week

✗ 4. We will

**Q.32** Select the most appropriate ANTONYM of the given word.
Authentic

**Ans** ✓ 1. Fake

✗ 2. Different

✗ 3. Basic

✗ 4. Genuine

**Q.33** Select the most appropriate meaning of the underlined idiom.
Sanchit stands by his friends <u>through thick and thin</u> .

**Ans** ✗ 1. In crowded areas

✓ 2. Under all circumstances

✗ 3. In winter and summer

✗ 4. In favourable situations

**Q.34** Select the option that can be used as a one-word substitute for the given group of words.
To tell the nature of a disease by its symptoms.

**Ans** ✗ 1. Design

✓ 2. Diagnosis

✗ 3. Decisive

✗ 4. Dosage

**Q.35** Select the most appropriate one-word substitution of the given group of words.

A form of government in which the supreme power is vested in the people and exercised by their elected agents under a free electoral system.

**Ans** ✗ 1. Autocracy

✗ 2. Anarchy

✗ 3. Monarchy

✓ 4. Democracy

**Q.36** Select the most appropriate ANTONYM of the given word.
**Inquisitive**

**Ans** ✗ 1. Innocent

✗ 2. Studious

✗ 3. Curious

✓ 4. Indifferent

**Q.37** Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.
**Politics and money go together in this country.**

**Ans** ✗ 1. go holding hands

✓ 2. go hand in hand

✗ 3. go arm in arm

✗ 4. No substitution required

**Q.38** Fill in the blank by selecting the meaningful and correctly spelt word from the given options.

They knew that the stock of the food was getting reduced and the fund_____for that was not enough for the next week.

**Ans** ✓ 1. allotted

✗ 2. abandoned

✗ 3. alerted

✗ 4. asserted

**Q.39** Select the option that can be used as a one-word substitute for the given group of words.
**A book published after author's death.**

**Ans** ✗ 1. Predecessor publication

✓ 2. Posthumous publication

✗ 3. Supernatural publication

✗ 4. Posthuman publication

**Q.40** Select the most appropriate meaning of the given idiom.
**Fit as a fiddle**

**Ans** ✗ 1. Something is perfect

✗ 2. A good and useful invention

✗ 3. To be extremely excited and energetic

✓ 4. To be in good health

**Comprehension:**

In the following passage some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
Swans are large waterbirds that (1)_____ to the family Anatidae, which also includes ducks and geese. They (2) _____ for their beauty and grace and are often used as symbols of love, fidelity, and elegance. They are also famous for their (3) _____ features, such as their long necks, large wingspans, and striking white feathers. (4) _____, not all swan species are white; the Black Swan, (5) _____, has black feathers with a red bill. Swans are found on every continent and are known for their strong pair bonds. They mate for life and can live up to 20 years.

**SubQuestion No : 41**

**Q.41** Select the most appropriate option to fill in blank number 1.

**Ans** ✗ 1. belonging

✓ 2. belong

✗ 3. belonged

✗ 4. belongs

**Comprehension:**

In the following passage some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Swans are large waterbirds that (1)_____ to the family Anatidae, which also includes ducks and geese. They (2) _____ for their beauty and grace and are often used as symbols of love, fidelity, and elegance. They are also famous for their (3) _____ features, such as their long necks, large wingspans, and striking white feathers. (4) _____, not all swan species are white; the Black Swan, (5) _____, has black feathers with a red bill. Swans are found on every continent and are known for their strong pair bonds. They mate for life and can live up to 20 years.

**SubQuestion No : 42**

**Q.42** **Select the most appropriate option to fill in blank number 2.**

Ans ✔ 1. are known

✘ 2. have knowing

✘ 3. had know

✘ 4. were known

**Comprehension:**

In the following passage some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Swans are large waterbirds that (1)_____ to the family Anatidae, which also includes ducks and geese. They (2) _____ for their beauty and grace and are often used as symbols of love, fidelity, and elegance. They are also famous for their (3) _____ features, such as their long necks, large wingspans, and striking white feathers. (4) _____, not all swan species are white; the Black Swan, (5) _____, has black feathers with a red bill. Swans are found on every continent and are known for their strong pair bonds. They mate for life and can live up to 20 years.

**SubQuestion No : 43**

**Q.43** **Select the most appropriate option to fill in blank number 3.**

Ans ✘ 1. popular

✔ 2. distinctive

✘ 3. similar

✘ 4. finite

**Comprehension:**

In the following passage some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Swans are large waterbirds that (1)_____ to the family Anatidae, which also includes ducks and geese. They (2) _____ for their beauty and grace and are often used as symbols of love, fidelity, and elegance. They are also famous for their (3) _____ features, such as their long necks, large wingspans, and striking white feathers. (4) _____, not all swan species are white; the Black Swan, (5) _____, has black feathers with a red bill. Swans are found on every continent and are known for their strong pair bonds. They mate for life and can live up to 20 years.

**SubQuestion No : 44**

**Q.44** **Select the most appropriate option to fill in blank number 4.**

Ans ✘ 1. Consequently

✘ 2. Formerly

✘ 3. Because

✔ 4. However

**Comprehension:**

In the following passage some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Swans are large waterbirds that (1)_____ to the family Anatidae, which also includes ducks and geese. They (2) _____ for their beauty and grace and are often used as symbols of love, fidelity, and elegance. They are also famous for their (3) _____ features, such as their long necks, large wingspans, and striking white feathers. (4) _____, not all swan species are white; the Black Swan, (5) _____, has black feathers with a red bill. Swans are found on every continent and are known for their strong pair bonds. They mate for life and can live up to 20 years.

**SubQuestion No : 45**

**Q.45** **Select the most appropriate option to fill in blank number 5.**

**Ans** ✅ 1. for example

❌ 2. in addition

❌ 3. after all

❌ 4. of course

---

**Comprehension:**

Read the given passage carefully and answer the questions that follow.

As the world's population approaches 8 billion and resource use intensifies, pollution is ever more extensive, pervasive, and persistent. It affects our health through the food we eat, the water we drink and the air we breathe. By 2025, the world's cities will produce 2.2 billion tonnes of waste every year, more than three times the amount produced in 2009. That said, pollution is not a new phenomenon and is largely controllable and often avoidable, as shown in some countries and cities that have succeeded in decoupling economic growth from pollution and waste accumulation.

With the end goal to eradicate all forms of pollution by 2030, the UN Environment Programme was tasked by the UN Environment Assembly to coordinate the implementation of a global plan reiterating that pollution is not only an environmental priority, it's a priority for the achievement of the Sustainable Development Goals.

**SubQuestion No : 46**

**Q.46** **What is the ANTONYM for the word 'pervasive' from the passage?**

**Ans** ✅ 1. Limited

❌ 2. Clear

❌ 3. Emotional

❌ 4. Offensive

---

**Comprehension:**

Read the given passage carefully and answer the questions that follow.

As the world's population approaches 8 billion and resource use intensifies, pollution is ever more extensive, pervasive, and persistent. It affects our health through the food we eat, the water we drink and the air we breathe. By 2025, the world's cities will produce 2.2 billion tonnes of waste every year, more than three times the amount produced in 2009. That said, pollution is not a new phenomenon and is largely controllable and often avoidable, as shown in some countries and cities that have succeeded in decoupling economic growth from pollution and waste accumulation.

With the end goal to eradicate all forms of pollution by 2030, the UN Environment Programme was tasked by the UN Environment Assembly to coordinate the implementation of a global plan reiterating that pollution is not only an environmental priority, it's a priority for the achievement of the Sustainable Development Goals.

**SubQuestion No : 47**

**Q.47** **Which of the following represents the structure of the passage?**

**Ans** ✅ 1. Cause-effect

❌ 2. Definition

❌ 3. Critique

❌ 4. Chronology

**Comprehension:**

Read the given passage carefully and answer the questions that follow.

As the world's population approaches 8 billion and resource use intensifies, pollution is ever more extensive, pervasive, and persistent. It affects our health through the food we eat, the water we drink and the air we breathe. By 2025, the world's cities will produce 2.2 billion tonnes of waste every year, more than three times the amount produced in 2009. That said, pollution is not a new phenomenon and is largely controllable and often avoidable, as shown in some countries and cities that have succeeded in decoupling economic growth from pollution and waste accumulation.

With the end goal to eradicate all forms of pollution by 2030, the UN Environment Programme was tasked by the UN Environment Assembly to coordinate the implementation of a global plan reiterating that pollution is not only an environmental priority, it's a priority for the achievement of the Sustainable Development Goals.

**SubQuestion No : 48**

**Q.48  Which of the following most accurately states the central idea of the passage?**

Ans  ✔ 1. Pollution free planet

✘ 2. Population explosion

✘ 3. United Nations

✘ 4. Economic growth

---

**Comprehension:**

Read the given passage carefully and answer the questions that follow.

As the world's population approaches 8 billion and resource use intensifies, pollution is ever more extensive, pervasive, and persistent. It affects our health through the food we eat, the water we drink and the air we breathe. By 2025, the world's cities will produce 2.2 billion tonnes of waste every year, more than three times the amount produced in 2009. That said, pollution is not a new phenomenon and is largely controllable and often avoidable, as shown in some countries and cities that have succeeded in decoupling economic growth from pollution and waste accumulation.

With the end goal to eradicate all forms of pollution by 2030, the UN Environment Programme was tasked by the UN Environment Assembly to coordinate the implementation of a global plan reiterating that pollution is not only an environmental priority, it's a priority for the achievement of the Sustainable Development Goals.

**SubQuestion No : 49**

**Q.49  Which is the best description of the tone of the passage?**

Ans  ✘ 1. Dogmatic

✘ 2. Technical

✘ 3. Sarcastic

✔ 4. Humanistic

---

**Comprehension:**

Read the given passage carefully and answer the questions that follow.

As the world's population approaches 8 billion and resource use intensifies, pollution is ever more extensive, pervasive, and persistent. It affects our health through the food we eat, the water we drink and the air we breathe. By 2025, the world's cities will produce 2.2 billion tonnes of waste every year, more than three times the amount produced in 2009. That said, pollution is not a new phenomenon and is largely controllable and often avoidable, as shown in some countries and cities that have succeeded in decoupling economic growth from pollution and waste accumulation.

With the end goal to eradicate all forms of pollution by 2030, the UN Environment Programme was tasked by the UN Environment Assembly to coordinate the implementation of a global plan reiterating that pollution is not only an environmental priority, it's a priority for the achievement of the Sustainable Development Goals.

**SubQuestion No : 50**

**Q.50  What is the ANTONYM for the word 'priority' from the passage?**

Ans  ✘ 1. Task

✘ 2. Part

✔ 3. Last

✘ 4. Factor

**Q.1** Three Statements are given followed by Three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

**Statements:**
All elephants are fishes.
No fish is a tiger.
Some deer are elephants.

**Conclusions:**
I. Some fishes are deer.
II. No elephant is a deer.
III. Some tigers are fishes.

**Ans** ✗ 1. Both conclusions I and II follow.

✗ 2. Both conclusions I and III follow.

✓ 3. Only conclusion I follows.

✗ 4. Only conclusion II follows.

**Q.2** Which of the following terms will replace the question mark (?) in the given series?

EQUE  ?     GOWC  HNXB  IMYA

**Ans** ✗ 1. FDVD

✗ 2. FEVD

✓ 3. FPVD

✗ 4. FIVD

**Q.3** Which of the following numbers will replace the question mark (?) in the given series?
98, 126, 165, 216, 280, ?

**Ans** ✓ 1. 358

✗ 2. 356

✗ 3. 348

✗ 4. 344

**Q.4** Select the correct mirror image of the given figure when the mirror is placed at line MN as shown.



**Ans**

✗ 1.


✔ 2.


✗ 3.


✗ 4.


---
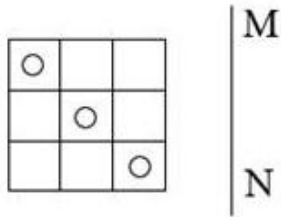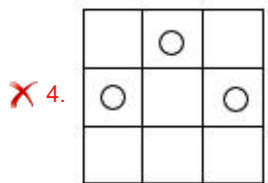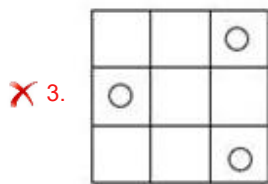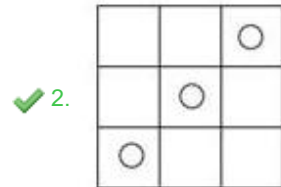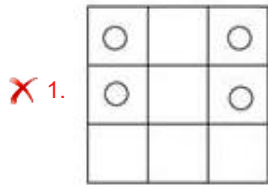
**Q.5** Which of the following numbers will replace the question mark (?) in the given series?

$$96, 12, \frac{3}{2}, ?, \frac{3}{128}$$

**Ans**

✗ 1. $\dfrac{3}{12}$

✔ 2. $\dfrac{3}{16}$

✗ 3. $\dfrac{3}{64}$

✗ 4. $\dfrac{1}{128}$

**Q.6** Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.

1. Channel
2. Chariot
3. Charcoal
4. Chapel
5. Chamber
6. Chance

**Ans** ✗ 1. 5, 6, 1, 4, 2, 3

✗ 2. 5, 1, 6, 4, 2, 3

✗ 3. 5, 1, 6, 4, 3, 2

✔ 4. 5, 6, 1, 4, 3, 2

**Q.7** Which of the given figures when placed in the 5th position would continue the series that is established by the first four figures?



**Ans**

✗ 1.


✔ 2.


✗ 3.


✗ 4.
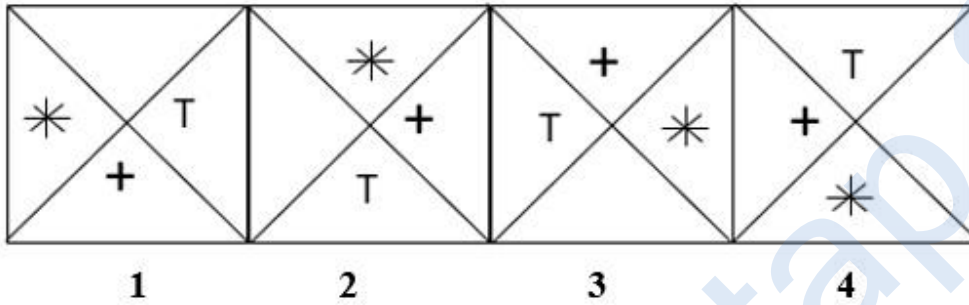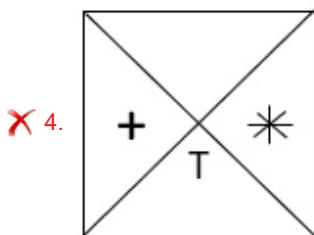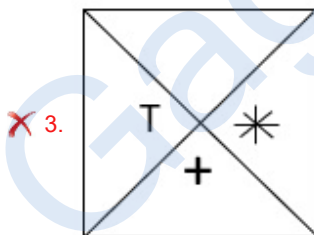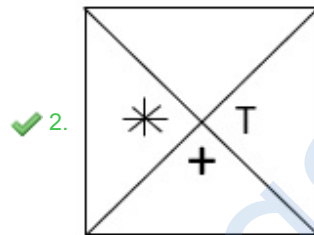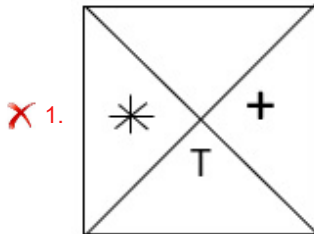
**Q.8** Select the option that represents the correct order of the given words as they would appear in an English dictionary?
1.Sermonize
2.Serious
3.Servant
4.Session
5.Serrated

**Ans** ✓ 1. 2, 1, 5, 3, 4

✗ 2. 3, 2, 5, 1, 4

✗ 3. 2, 3, 5, 1, 4

✗ 4. 3, 1, 5, 2, 4

---

**Q.9** A @ B means 'A is the husband of B'
A & B means 'A is the mother of B'
A # B means 'A is the daughter of B'
If J # L @ Y & K @ Z, then how is J related to Z?

**Ans** ✓ 1. Husband's sister

✗ 2. Brother's wife

✗ 3. Mother

✗ 4. Sister's husband

---

**Q.10** Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

Pamper: Gratify :: Devour:?

**Ans** ✗ 1. Abstain

✗ 2. Receive

✗ 3. Build

✓ 4. Ravage

---

**Q.11** Three of the following letter-clusters are alike in some manner and one is different. Select the one that is different.

**Ans** ✓ 1. PKQJ

✗ 2. NPOQ

✗ 3. QSRT

✗ 4. XZYA

---

**Q.12** Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)
Pencil : Lead :: Pen : ?

**Ans** ✗ 1. Gas

✗ 2. Black

✗ 3. Water

✓ 4. Ink

---

**Q.13** In a certain code language, 'CANADA' is written as 'XZMZWZ' and 'AFRICA' is written as 'ZUIRXZ'. How will 'DEPRESSION' be written in that language?

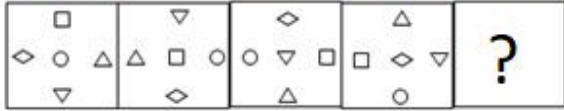**Ans** ✗ 1. XVKIVGGPLM

✓ 2. WVKIVHHRLM

✗ 3. XVKIVGGRLM

✗ 4. WVKIVGGPLM

**Q.14** In a certain code language, 'RING' is coded as 64 and 'WATCH' is coded as 125. How will 'BRACELET' be coded in the same language?

**Ans**
✅ 1. 512

❌ 2. 343

❌ 3. 504

❌ 4. 478

---

**Q.15** Select the figure that will replace the question mark (?) in the following figure series.



**Ans**

✅ 1. 

❌ 2. 

❌ 3. 

❌ 4. 

---

**Q.16** Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term.
98 : 115 :: 74 : ? :: 67 : 84

**Ans**
✅ 1. 91

❌ 2. 80

❌ 3. 85

❌ 4. 95

---

**Q.17** Which letter-cluster will replace the question mark (?) to complete the given series?
FMQX, DJSA, ?, ZDWG, XAYJ

**Ans**
❌ 1. BGDU

✅ 2. BGUD

❌ 3. BFUC

❌ 4. BEDF

---

**Q.18** Which of the following interchange of numbers (not digit) would make the given equation correct?
16 × 5 ÷ 20 + 6 + 50 = 40

**Ans**
❌ 1. 20, 40

✅ 2. 40, 50

❌ 3. 5, 40

❌ 4. 6, 40

**Q.19** Select the option that is related to the fourth term in the same way as the first term is related to the second term and the fifth term is related to the sixth term.

7 : 40 :: ? : 667 :: 39 : 1512

**Ans**  ✗ 1. 47

✗ 2. 34

✗ 3. 25

✓ 4. 26

---

**Q.20** Two statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

**Statements:**
All cardiologists are doctors.
Some cardiologists are neurologists.

**Conclusions:**
I) Some doctors are cardiologists.
II) Some doctors are neurologists.

**Ans**  ✓ 1. Both Conclusions I and II follow.

✗ 2. Only Conclusion II follows

✗ 3. Only Conclusion I follows.

✗ 4. Neither Conclusion I nor II follows.

---

**Q.21** Select the correct mirror image of the given combination when the mirror is placed at 'MN' as shown below.



**Ans**

✗ 1. 

✗ 2. 

✗ 3. 

✓ 4. 
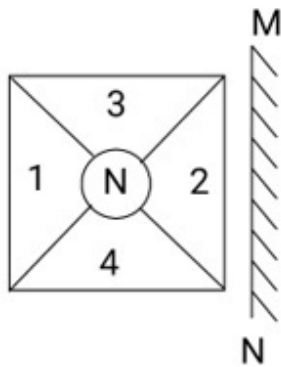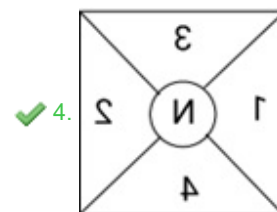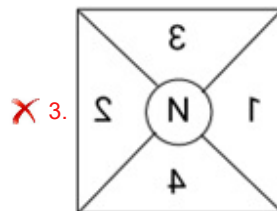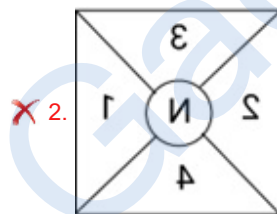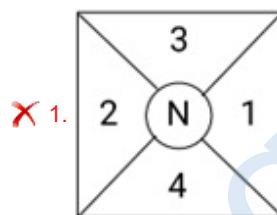
**Q.22** Which number will replace the question mark (?) in the following series?
28, 30, ?, 188, 754, 3772

**Ans**
✗ 1. 122
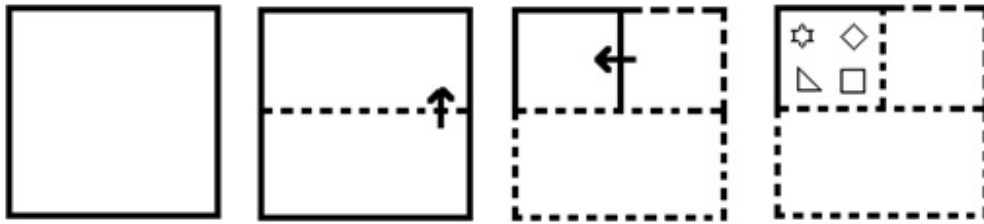
✗ 2. 60

✓ 3. 62

✗ 4. 120

---

**Q.23** If P denotes '×', Q denotes '÷', R denotes '+', and S denotes '-', then what will come in place of '?' in the following equation?

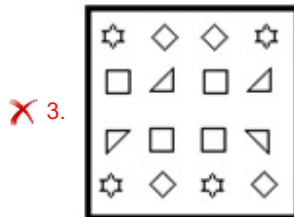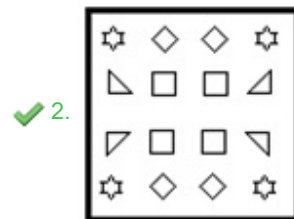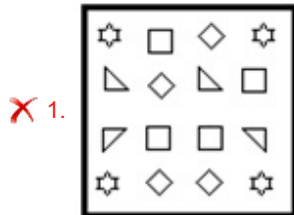$$\sqrt{256}\ P\ 3\ S\ 66\ Q\ 11\ P\ 5\ R\ 43\ =\ ?$$

**Ans**
✓ 1. 61

✗ 2. 69

✗ 3. 58

✗ 4. 72

**Q.24** The sequence of folding a piece of paper and the manner in which the folded paper is cut is shown in the following figures. How would this paper look when unfolded?



**Ans**

✗ 1. 

✔ 2. 

✗ 3. 

✗ 4. 

**Q.25** If '+' means '−', '−' means '÷', '÷' means '×' and '×' means '+', then what will come in place of the (?) in the following equation?

$300 - 2 + 50 \times 3 \div 2 = ?$
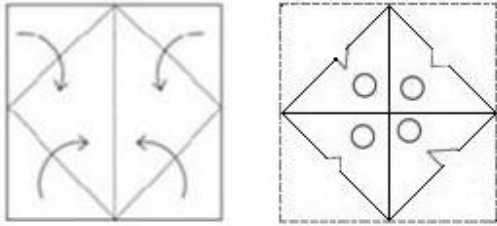
**Ans**
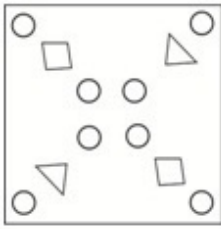
✗ 1. 661

✔ 2. 106

✗ 3. 61

✗ 4. 23

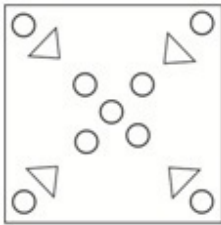**Q.26** A paper is folded and cut as shown. How will it appear when unfolded?
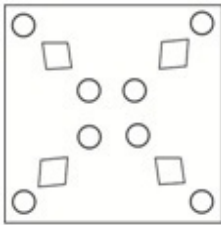


**Ans**

✗ 1.



✗ 2.



✗ 3.



✔ 4.



---

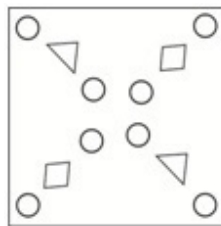**Q.27** Which of the following letters will replace the question mark (?) in the given series?
B, D, G, K, P, ?

**Ans**

✔ 1. V

✗ 2. S

✗ 3. R

✗ 4. Q

---

**Q.28** If A denotes '+', B denotes '×', C denotes '−', and D denotes '÷', then what will be the value of the following expression?

17  B  3  A  14  D  7  C  5  =  ?

**Ans**

✔ 1. 48

✗ 2. 38

✗ 3. 57

✗ 4. 29

**Q.29** In a certain code language, 'CHALK' is coded as 6-16-2-24-22 and 'BOARD' is coded as 4-30-2-36-8. How will 'PAPER' be coded in the same language?

**Ans**
✗ 1. 32-2-32-12-36

✗ 2. 36-2-36-10-32

✓ 3. 32-2-32-10-36

✗ 4. 36-2-36-12-32

---

**Q.30** Two statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.
**Statements:**
All actors are singers.
Some musicians are dancers.
**Conclusion:**
I)All dancers are musicians.
II)Some singers are actors.

**Ans**
✓ 1. Only Conclusion II follows.

✗ 2. Neither Conclusion I nor II follows.

✗ 3. Only Conclusion I follows

✗ 4. Both Conclusions I and II follow.

---

**Q.31** In a certain code language, 'BABY' is coded as '29' and 'GENDER' is coded as '52'. How will 'CRIPPLE' be coded in that language?

**Ans**
✗ 1. 88

✓ 2. 78

✗ 3. 74

✗ 4. 84

---

**Q.32** Three of the following letter-clusters are alike in some manner and one is different. Select the one that is different.

**Ans**
✗ 1. FAEB

✗ 2. ZUYV

✓ 3. AZBY

✗ 4. UPTQ

---

**Q.33** Two statements are given followed by Three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.
**Statements:**
All knives are guns.
Some bullets are knives.
**Conclusions:**
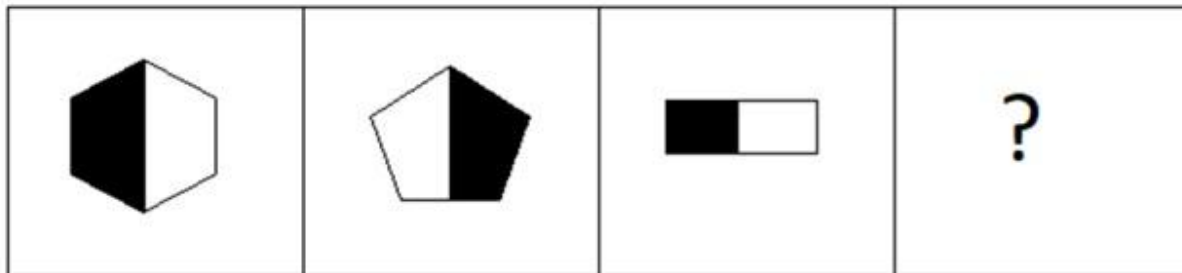I. Some guns are bullets.
II. No bullet is a gun.
III. Some guns are knives.

**Ans**
✗ 1. Conclusions I, II and III follow.

✗ 2. Both conclusions II and III follow.

✓ 3. Both conclusions I and III follow.

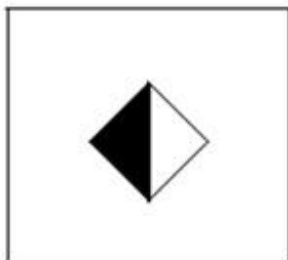✗ 4. Both conclusions I and II follow.

**Q.34**

Select the figure that will come next in the following figure series.
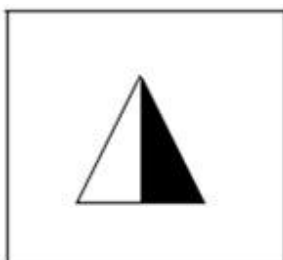


**Ans**

✗ 1.


✔ 2.


✗ 3.


✗ 4.
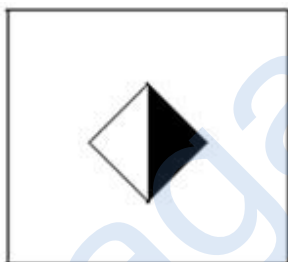

**Q.35** Param drives 8 km towards north from point A. He takes a right turn and drives 8 km. Again he takes a right turn and drives 4 km. Finally, he takes a right turn and drives 8 km to reach point B. How far and towards which direction should he drive in order to reach point A again?

**Ans** ✔ 1. 4 km towards south

✗ 2. 5 km towards north

✗ 3. 3 km towards west

✗ 4. 6 km towards east

**Q.36** Six students P, Q, R, S, T and U are sitting around a circular table facing the centre. R is an immediate neighbour of both T and U. P is sitting third to the right of U. Q is sitting to the immediate left of S. S is sitting second to the right of P. Who is the immediate neigbour of both R and S?

**Ans** ✔ 1. U

✗ 2. Q

✗ 3. P

✗ 4. T

**Q.37** Amsterdam is located to the South of Barcelona. Munich is to the West of Amsterdam. Detroit is to the East of Munich.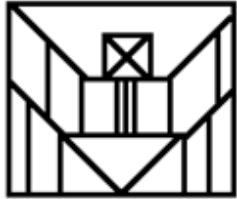 Toronto is to the South of Detroit and to the South-East of Barcelona. What is the position of Amsterdam with respect to Detroit? (All positions are arranged in GRID pattern)

**Ans**
  ✗ 1. North

  ✗ 2. South

  ✗ 3. East

  ✔ 4. West

---

**Q.38** Select the option figure that is embedded in the given figure as its part (rotation is NOT allowed)



**Ans**

  ✗ 1. 

  ✗ 2. 

  ✗ 3. 

  ✔ 4. 

---

**Q.39** If '+' means '×', '×' means '−', '−' means '÷' and '÷' means '+', then what will come in place of the (?) in the following equation?

$150 - 5 + 3 \div 23 \times 3 = ?$

**Ans**
  ✗ 1. 111

  ✔ 2. 110

  ✗ 3. 155

  ✗ 4. 145

---

**Q.40** Which of the following numbers will replace the question mark (?) in the given series?

$18, 6, 2, ?, \frac{2}{9}$

**Ans**

  ✗ 1. $\dfrac{1}{9}$

  ✗ 2. $1$

  ✔ 3. $\dfrac{2}{3}$

  ✗ 4. $\dfrac{1}{3}$

**Q.41** Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13- Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
(12,14, 38)
(6, 23, 35)

**Ans**
✗ 1. (4, 5, 20)

✗ 2. (8, 10, 24)

✔ 3. (16, 11, 43)

✗ 4. (19, 9, 38)

---

**Q.42** If '+' means '÷' , '−' means '+' , '×' means '−' and '÷' means '×', then what will come in place of (?) in the given equation?

$5 ÷ 2 − 20 + 5 × 2 = ?$

**Ans**
✔ 1. 12

✗ 2. 15

✗ 3. 10

✗ 4. 20

---

**Q.43** A paper is folded and cut as shown. How will it appear when unfolded?



**Ans**

✗ 1. 

✗ 2. 

✗ 3. 

✔ 4. 
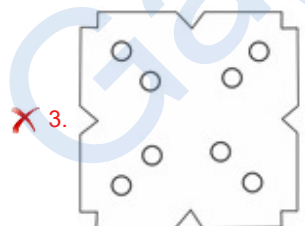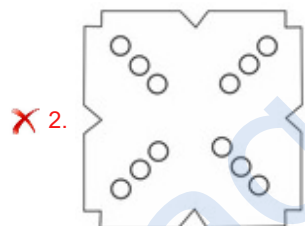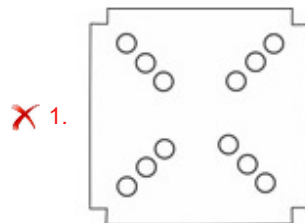
**Q.44** Select the set in which the numbers are related in the same way as are the numbers of the following set.

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
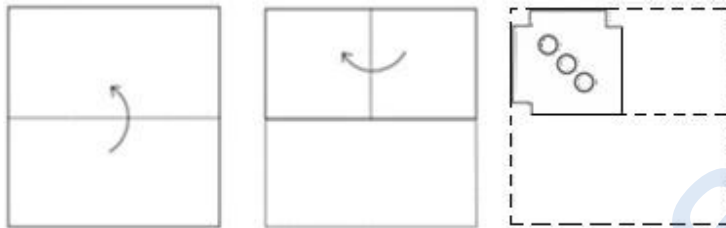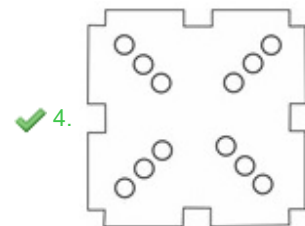
(6, 15, 1)
(5, 6, 3)

**Ans** ✔ 1. (15,21,8)

✘ 2. (12,46,5)

✘ 3. (5,32,7)

✘ 4. (7,42,5)

---

**Q.45** 'A # B' means 'A is the brother of B'.
'A * B' means 'A is the wife of B'.
'A $ B' means 'A is the daughter of B'.
'A = B' means 'A is the father of B'.
If P * V # D $ B = Z, then how is B related to P?

**Ans** ✘ 1. Brother

✘ 2. Wife

✘ 3. Husband

✔ 4. Husband's father

---

**Q.46** Select the correct mirror image of the given figure when the mirror is placed at line MN as shown.
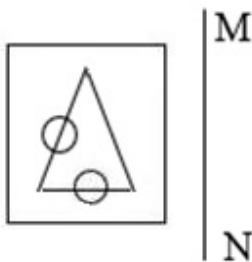


**Ans**

✘ 1. 

✔ 2. 

✘ 3. 

✘ 4. 

**Q.47** 6 friends are sitting around a circular table. Vini, Urja and Tanvi are sitting facing the centre and two out of Abhay, Bala and Chan are not sitting facing the centre. Vini is sitting second to the left of Chan. Urja is sitting second to the right of Abhay. Bala is sitting third to the left of Tanvi. Chan is sitting second to the right of Tanvi. Abhay is sitting next to Vini. Who is sitting fourth to the right of Chan?

**Ans**
✔ 1. Vini

✘ 2. Tanvi

✘ 3. Urja

✘ 4. Bala

---

**Q.48** Select the correct mirror image of the given figure when the mirror is placed at line MN as shown.



**Ans**

✔ 1.


✘ 2.


✘ 3.


✘ 4.


---
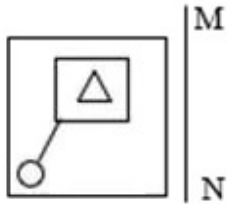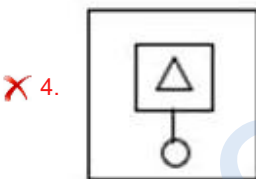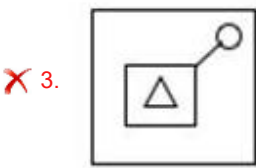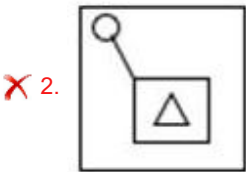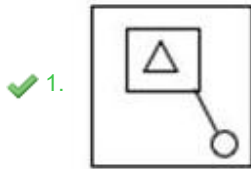
**Q.49** In a certain code language, 'BAKED' is written as 'CCNII' and 'COOK' is written as 'DQRO'. How will 'EATING' be written in that language?

**Ans**
✘ 1. FCWMTM

✘ 2. GDXNTN

✘ 3. FDVMRM

✔ 4. FCWMSM

---

**Q.50** If '+' means '−', '−' means '×', '×' means '÷' and '÷' means '+', what will come in place of '?' in the following equation?
$137 ÷ 80 × 5 - 4 + 34 = ?$

**Ans**
✘ 1. 141

✘ 2. 235

✔ 3. 167

✘ 4. 184

**Q.1** In test match cricket, how many minimum overs can a team play in a day?

**Ans**
- ✗ 1. 60
- ✗ 2. 80
- ✗ 3. 70
- ✓ 4. 90

**Q.2** Which ecosystem is the only one that does NOT thrive on solar energy?

**Ans**
- ✗ 1. Marine organisms
- ✓ 2. Deep sea hydro-thermal ecosystem
- ✗ 3. Nitrogen fixing bacteria
- ✗ 4. Phytoplanktons

**Q.3** When did Heinrich Hertz discover the photoelectric effect and observe that shining ultraviolet light on the electrodes caused a change in voltage between them?

**Ans**
- ✗ 1. 1990
- ✗ 2. 1916
- ✗ 3. 1902
- ✓ 4. 1887

**Q.4** The Delhi sultan, who succumbed to injuries as a result of his fall from horse was _____.

**Ans**
- ✓ 1. Qutubuddin Aibak
- ✗ 2. Behram Shah
- ✗ 3. Balban
- ✗ 4. Iltutmish

**Q.5** Which of the following states has the lowest literacy rate in India according to census 2011?

**Ans**
- ✗ 1. Haryana
- ✗ 2. Andhra Pradesh
- ✗ 3. Odisha
- ✓ 4. Bihar

**Q.6** Tomb of Iltutmish was built in which year?

**Ans**
- ✗ 1. 1458 AD
- ✗ 2. 1388 AD
- ✓ 3. 1235 AD
- ✗ 4. 1199 AD

**Q.7** Which of the following was the major export item from India in 2021?

**Ans**
- ✓ 1. Petroleum products
- ✗ 2. Automobiles
- ✗ 3. Pharmaceuticals
- ✗ 4. Jewellery

**Q.8** Which report is NOT associated with Fundamental Rights?

**Ans**
- ✗ 1. Tej Bahadur Sapru Report
- ✗ 2. Motilal Nehru Report
- ✓ 3. Sarkaria Commission Report
- ✗ 4. JB Kripalani Report

**Q.9** Which of the following is a source of tax revenue?

**Ans**   ✗ 1. Profits

   ✓ 2. Customs

   ✗ 3. Grants

   ✗ 4. Penalties

---

**Q.10** Calculate the GDP at factor cost given in the following data.
GDP at market price = 600 crores
Consumption of fixed capital = 100 crores
Indirect taxes = 200 crores
Subsidies = 50 crores

**Ans**   ✗ 1. 850 crores

   ✓ 2. 450 crores

   ✗ 3. 950 crores

   ✗ 4. 350 crores

---

**Q.11** Kanaka Raju has been awarded Padma Shri in 2021 for which of the following folk dances?

**Ans**   ✗ 1. Fugdi

   ✓ 2. Gussadi

   ✗ 3. Ganagor

   ✗ 4. Bhavai

---

**Q.12** Who succeeded Alivardi Khan as Nawab of Bengal?

**Ans**   ✗ 1. Shaukat Jang

   ✓ 2. Siraj-ud-Daulah

   ✗ 3. Mir Kasim

   ✗ 4. Mir Jaffar

---

**Q.13** Who among the following had written 'The Dark Room' that presents an Indian woman in stiff opposition to male domination?

**Ans**   ✓ 1. RK Narayan

   ✗ 2. Mulk Raj Anand

   ✗ 3. Kazi Nazrul Islam

   ✗ 4. Kuldip Nayyar

---

**Q.14** The food component present in sugar is:

**Ans**   ✗ 1. fats

   ✗ 2. vitamins

   ✓ 3. carbohydrates

   ✗ 4. protein

---

**Q.15** Which of the following policy measures is NOT a step towards liberalisation?

**Ans**   ✗ 1. Removal of requirement of registration for certain industries

   ✗ 2. Increase in equity limit of foreign investment

   ✗ 3. Removal of industrial licensing for certain industries

   ✓ 4. Enhancement in tariffs

**Q.16** Cricket became an international game with the formation of the Imperial Cricket Conference (ICC) in the year _____.

**Ans**
- ✗ 1. 1947
- ✗ 2. 1951
- ✗ 3. 1921
- ✓ 4. 1909

**Q.17** Aluna Kabuini is associated with which of the following dances?

**Ans**
- ✗ 1. Kathak
- ✗ 2. Sattriya
- ✓ 3. Manipuri
- ✗ 4. Mohiniyattam

**Q.18** _____ is characterized by abundant dissolved oxygen, sunlight, nutrients, generally high wave energies and water motion, and, in the intertidal subzone, alternating submergence and exposure.

**Ans**
- ✗ 1. The Lentic Zone
- ✗ 2. The Limnetic Zone
- ✓ 3. The Littoral Zone
- ✗ 4. The Benthic Zone

**Q.19** Which of the following is responsible for attending to disputes concerning recruitment and conditions of service of public personnel at the Centre?

**Ans**
- ✓ 1. Central Administrative Tribunal
- ✗ 2. The Settlement and Appellate Tribunal
- ✗ 3. The Competition Appellate Tribunal
- ✗ 4. Joint Administrative Tribunal

**Q.20** Which of the following statements is correct?

**Ans**
- ✗ 1. Zinc oxide is a form of rust.
- ✓ 2. Chemically rust is hydrated ferric oxide.
- ✗ 3. Chemically rust is non-hydrated ferric oxide.
- ✗ 4. Copper can also turn into rust upon hydration.

**Q.21** Identify the INCORRECT statement for the universal law of gravitation.

**Ans**
- ✗ 1. It is the force that binds us to earth
- ✓ 2. It is the force causing tides due to the stars and earth
- ✗ 3. It is the force keeps motion of planets around the Sun
- ✗ 4. It is the forces that assists motion of the moon around earth

**Q.22** M Balamuralikrishna is associated with which form of music?

**Ans**
- ✓ 1. Carnatic Sangeet
- ✗ 2. Hindustani Sangeet
- ✗ 3. Folk music
- ✗ 4. Haveli Sangeet

**Q.23** _____ are NOT considered surface water.

**Ans**   ✗ 1. Lakes

✓ 2. Aquifers

✗ 3. Rivers

✗ 4. Oceans

---

**Q.24** Identify the correct statement about gravity.

**Ans**   ✓ 1. The unit of g is the same as that of acceleration.

✗ 2. The unit of g is the same as that of velocity.

✗ 3. The unit of g is the same as that of mass.

✗ 4. The unit of g is the same as that of friction.

---

**Q.25** Which of the following can degrade detritus into simpler inorganic substances?

**Ans**   ✗ 1. Lichens

✗ 2. Algae

✓ 3. Fungal enzymes

✗ 4. Phytoplankton

---

**Q.26** In a basketball game, how many players from one team play on the court at any given time?

**Ans**   ✗ 1. 7

✓ 2. 5

✗ 3. 4

✗ 4. 6

---

**Q.27** Which of the following sets of statements are correct about Inter Tropical Convergence Zone (ITCZ)?
a. The ITCZ is a broad trough of low pressure in equatorial latitudes.
b. This is where the northeast and the southeast trade winds converge.
c. The ITCZ is the equatorial trough normally positioned about 5°N of the equator and remain there throughout the year.
d. The ITCZ moves over to the plane of Ganga in Summer.

**Ans**   ✗ 1. Only a and c

✗ 2. a, b and c

✗ 3. Only b and c

✓ 4. a, b and d

---

**Q.28** The drainage system formed when rivers discharge their waters from all directions in a lake or depression, as in the case of Loktak Lake in Manipur, is called _____.

**Ans**   ✗ 1. radial

✓ 2. centripetal

✗ 3. dendritic

✗ 4. trellis

---

**Q.29** The Harshacharita is written in Sanskrit by _____.

**Ans**   ✗ 1. Harisena

✗ 2. Harshavardhana

✓ 3. Banabhatta

✗ 4. Nagasena

**Q.30** The _____ Five-Year Plan was the first plan to focus on gender issues, women empowerment and the growing inequalities amongst the states and inter-regional disparities.

**Ans**
✗ 1. Third

✓ 2. Fifth

✗ 3. Sixth

✗ 4. Fourth

**Q.31** Nauroz is celebrated by which of the following communities in India?

**Ans**
✓ 1. Parsi

✗ 2. Jain

✗ 3. Sikh

✗ 4. Buddhist

**Q.32** Who was the Lieutenant Governor of Jammu and Kashmir in October 2022?

**Ans**
✗ 1. Satya Pal Malik

✗ 2. Girish Chandra Murmu

✗ 3. NN Vohra

✓ 4. Manoj Sinha

**Q.33** After how many days of absence from Parliament without permission will a Member of Parliament be disqualified?

**Ans**
✓ 1. 60 days

✗ 2. 30 days

✗ 3. 50 days

✗ 4. 20 days

**Q.34** French possessions in India were restored after the Battle of Wandiwash by the Treaty of _____ signed in the year 1763 between Britain and France.

**Ans**
✗ 1. Purandar

✓ 2. Paris

✗ 3. Tordesillas

✗ 4. Surat

**Q.35** Match the columns.

| Seaport | State |
| --- | --- |
| 1. Tuticorin Port | a. West Bengal |
| 2. Haldia Port | b. Tamil Nadu |
| 3. Mangalore Port | c. Karnataka |

**Ans**
✗ 1. 1-c, 2-b, 3-a

✗ 2. 1-a, 2-b, 3-c

✓ 3. 1-b, 2-a, 3-c

✗ 4. 1-c, 2-a, 3-b

**Q.36** In the Interim Government formed on 2 September 1946, Liaquat Ali Khan was given the charge of:

**Ans**
✗ 1. the External Affairs Ministry

✓ 2. the Finance Ministry

✗ 3. the Defence Ministry

✗ 4. the Home Ministry

**Q.37** The preferred IUPAC name of Allyl bromide is:

**Ans** ✔ 1. 3-Bromopropene

✘ 2. 1-Bromopantene

✘ 3. 2-Bromopropene

✘ 4. 3-Bromobutene

**Q.38** According to National Statistical Office (NSO) data, India's average literacy rate in 2021 was _____.

**Ans** ✔ 1. 77.70%

✘ 2. 78.71%

✘ 3. 76.70%

✘ 4. 70.50%

**Q.39** The Madhya Pradesh government conferred the Dhananjayans, a celebrated _____ couple from Chennai, with the prestigious Rashtriya Kalidas Samman for 2019-2020.

**Ans** ✘ 1. Kuchipudi

✔ 2. Bharatanatyam

✘ 3. Sattriya

✘ 4. Kathakali

**Q.40** Ugadi is a _____ New Year celebrated in the month of March.

**Ans** ✘ 1. Marathi

✔ 2. Telugu

✘ 3. Bengali

✘ 4. Punjabi

**Q.41** What is the length of a bacterial cell?

**Ans** ✔ 1. 3 to 5 μm

✘ 2. 0 to 3 μm

✘ 3. 1 to 40 μm

✘ 4. 30 to 50 μm

**Q.42** Which of the following events took place in 1398?

**Ans** ✔ 1. Timur invasion of india

✘ 2. Battle of Haldighati

✘ 3. Babur's invasion of Delhi

✘ 4. Humayun's flight to Persia

**Q.43** The Fundamental Rights in the Indian Constitution are inspired by the 'Bill of Rights' of which of the following countries?

**Ans** ✘ 1. The USSR

✘ 2. Japan

✘ 3. Australia

✔ 4. The USA

**Q.44** Articles 36 to 51 of the Indian Constitution deal with _____.

**Ans**
✗ 1. fundamental duties

✗ 2. fundamental rights

✗ 3. preamble of Indian constitution

✔ 4. directive principles of state policy

---

**Q.45** Which of the following statements is INCORRECT with regard to the Green Revolution?

**Ans**
✔ 1. It was introduced in areas that were rain-fed.

✗ 2. It was a government programme of agricultural modernisation.

✗ 3. It was targeted mainly at the wheat and rice-growing areas.

✗ 4. It was funded by international agencies.

---

**Q.46** 'Wings of Fire' is the autobiography of _____.

**Ans**
✔ 1. APJ Abdul Kalam

✗ 2. Zakir Husain

✗ 3. KR Narayanan

✗ 4. Rajendra Prasad

---

**Q.47** Which of the following places experiences extreme cold in winter and pleasant weather in summer?

**Ans**
✗ 1. Amritsar

✔ 2. Leh

✗ 3. Chennai

✗ 4. New Delhi

---

**Q.48** Ustad Asad Ali Khan is famous for which of the following schools of Dhrupad as an instrumentalist?

**Ans**
✗ 1. Nauhar

✗ 2. Dagar

✔ 3. Khandarbani

✗ 4. Gauri

---

**Q.49** Bharatanatyam is traditionally performed to which type of music?

**Ans**
✗ 1. Lavani

✗ 2. Baul

✗ 3. Hindustani

✔ 4. Carnatic

---

**Q.50** The first Indian who won a medal in World Athletics Championship is_____.

**Ans**
✗ 1. Neeraj Chopra

✗ 2. Annu Rani

✔ 3. Anju Bobby George

✗ 4. Murali Sreeshankar

**Q.1** The greatest possible length that can be used to measure exactly the lengths of 3 m 15 cm, 5 m, and 6 m 85 cm is:

**Ans**
✗ 1. 11 cm

✗ 2. 7 cm

✗ 3. 9 cm

✓ 4. 5 cm

**Q.2** In a survey, 200 respondents were asked whether they owned a vehicle or not. Their responses are tabulated below. What percentage of respondents do NOT own a car?

| | | Men | Women |
|---|---|---|---|
| Own Vehicle | Scooter | 30 | 20 |
| | Car | 25 | 10 |
| | Both | 15 | 5 |
| Do not own vehicle | | 50 | 45 |

**Ans**
✓ 1. 72.5%

✗ 2. 65%

✗ 3. 68.5%

✗ 4. 75%

**Q.3** By selling a table for ₹1,596, Aarav loses 24%. At what price (in ₹) should he sell it to gain 24%?

**Ans**
✓ 1. 2604

✗ 2. 1979

✗ 3. 3196

✗ 4. 3024

**Q.4** Ram has 12 hens and 5 cows, Shyam has 18 hens and 9 cows, Preetham has 4 hens and 8 cows, and Vinay has 10 hens and 7 cows. Who has a greater ratio of hens to cows?

**Ans**
✗ 1. Shyam

✗ 2. Preetham

✗ 3. Vinay

✓ 4. Ram

**Q.5** Find the value of $\dfrac{\sin^2 39° + \sin^2(90° - 39°)}{\cos^2 35° + \cos^2(90° - 35°)} + 3\tan 25°\tan 75°$:

**Ans**
✗ 1. 1

✗ 2. 3

✓ 3. 4

✗ 4. 2

**Q.6** The LCM of 96, 132 and 438 is:

**Ans**
✗ 1. 85046

✗ 2. 67055

✓ 3. 77088

✗ 4. 86084

**Q.7** If tanθ + cotθ = 2, θ is an acute angle, then find the value of $2\tan^{25}\theta + 3\cot^{20}\theta + 5\tan^{30}\theta\cot^{15}\theta$.

**Ans**
- ✗ 1. 12
- ✓ 2. 10
- ✗ 3. 8
- ✗ 4. 6

---

**Q.8** The monthly income of an employee was ₹26,500 and his monthly expenditure was ₹22,000. Next year his income increased by 20% and his expenditure increased by 15%. Find the percentage increase in his savings.

**Ans**
- ✓ 1. $44\dfrac{4}{9}\%$
- ✗ 2. $44\dfrac{7}{9}\%$
- ✗ 3. $44\dfrac{5}{9}\%$
- ✗ 4. $44\dfrac{8}{9}\%$

---

**Q.9** A sphere and another solid hemisphere have the same surface area. The ratio of their volumes is:

**Ans**
- ✗ 1. $2\sqrt{3} : 8$
- ✗ 2. $3\sqrt{3} : 8$
- ✗ 3. $\sqrt{3} : 4$
- ✓ 4. $3\sqrt{3} : 4$

---

**Q.10** Study the given table chart carefully and answer the question that follows.
The given table represents the number of employees in five different organisations, i.e., A, B, C, D and E in 2019, 2020, 2021 and 2022.

| Organisation | Years | | | |
|---|---|---|---|---|
| | 2019 | 2020 | 2021 | 2022 |
| A | 4000 | 7800 | 2600 | 5200 |
| B | 3800 | 9200 | 9100 | 7300 |
| C | 4500 | 5500 | 7800 | 3250 |
| D | 7000 | 3800 | 8000 | 4650 |
| E | 6600 | 6200 | 7600 | 2880 |

The ratio of the number of employees in 2019 in organisations D and E taken together to that in 2021 in the same organisations is:

**Ans**
- ✓ 1. 34 : 39
- ✗ 2. 39 : 34
- ✗ 3. 14 : 9
- ✗ 4. 9 : 14

**Q.11** The LCM of $x^2 - 8x + 15$ and $x^2 - 5x + 6$ is:

**Ans**

✗ 1. $(x+5)(x+2)(x+3)$

✔ 2. $(x-5)(x-2)(x-3)$

✗ 3. $(x+5)(x-2)(x-3)$

✗ 4. $(x-2)(x-3)^2(x-5)$

---

**Q.12** Find the value of sin (50 ° + A) - cos (40 ° - A).

**Ans**

✗ 1. 1

✔ 2. 0

✗ 3. −1

✗ 4. 2

---

**Q.13** If $\sin \theta + \cos \theta = \frac{\sqrt{11}}{3}$, then what is $\sin \theta - \cos \theta$?

**Ans**

✗ 1. $\frac{\sqrt{5}}{3}$

✔ 2. $\frac{\sqrt{7}}{3}$

✗ 3. $\frac{\sqrt{7}}{4}$

✗ 4. $\frac{\sqrt{5}}{2}$

---

**Q.14** A family earns ₹75,000, out of which 10% is saved. 30% of the expenditure is incurred on education, while ₹30,375 is spent on health and the remaining amount is spent on food. What is the percentage of food expenditure to the total income?

**Ans**

✗ 1. 20%

✗ 2. 21.5%

✔ 3. 22.5%

✗ 4. 32.5%

**Q.15** Study the given pie-chart and answer the question that follows.
The pie-chart shows the sale of different fruits in a shop in a day.
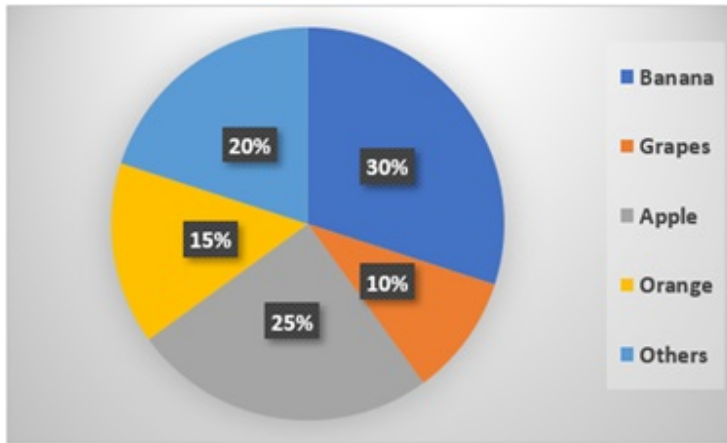


If a total of 1200 kg of fruits were sold in a day, find the difference between sales of grapes and oranges (in kg).

Ans  ✔ 1. 60

✘ 2. 45

✘ 3. 65

✘ 4. 55

---

**Q.16** Two circles with centres P and Q of radii 6 cm and 4 cm, respectively, touch each other internally. If the perpendicular bisector of PQ meets the bigger circle in A and B, then the value of AB is:

Ans  ✘ 1. $\sqrt{35}$ cm

✘ 2. $\sqrt{5}$ cm

✘ 3. $2\sqrt{5}$ cm

✔ 4. $2\sqrt{35}$ cm

---

**Q.17** The following table shows the marks obtained out of 100, by 5 students in 5 different subjects.

| Students | Hindi | English | Maths | Science | Social |
|---|---|---|---|---|---|
| Ravi | 78 | 84 | 88 | 75 | 79 |
| Abhishek | 84 | 86 | 78 | 89 | 80 |
| Ayush | 88 | 80 | 90 | 82 | 85 |
| Rohit | 72 | 85 | 88 | 89 | 78 |
| Aryan | 86 | 88 | 77 | 79 | 89 |

What are the total marks scored by Ayush in all the subjects?

Ans  ✘ 1. 445

✘ 2. 435

✘ 3. 465

✔ 4. 425

---

**Q.18** The average of 45 numbers was found to be 39. Later on, it was detected that a number 65 was misread as 56. Find the correct average of the given numbers.

Ans  ✘ 1. 36.2

✘ 2. 37.2

✘ 3. 38.2

✔ 4. 39.2

**Q.19** What is the LCM of 0.15, 0.18 and 0.45?

**Ans**
- ✗ 1. 0.6
- ✓ 2. 0.9
- ✗ 3. 0.81
- ✗ 4. 0.09

---

**Q.20** In an equilateral ΔPQR, S is point on the side QR such that QR = 3QS. If PQ = 9 cm, then what will be the length (in cm) of PS?

**Ans**
- ✓ 1. $\sqrt{63}$
- ✗ 2. $\sqrt{62}$
- ✗ 3. $\sqrt{60}$
- ✗ 4. $\sqrt{61}$

---

**Q.21** Arbind has 650 kg of wheat. A part of which he sells at 9% profit and the rest at 19% profit to get 15% profit on the whole. What is the quantity (in kg) of wheat sold by Arbind at 9% profit?

**Ans**
- ✓ 1. 260
- ✗ 2. 390
- ✗ 3. 195
- ✗ 4. 455

---

**Q.22** If $a - \dfrac{1}{a} = 4$, then the value of $a + \dfrac{1}{a}$ is:

**Ans**
- ✗ 1. $5\sqrt{5}$
- ✗ 2. $4\sqrt{5}$
- ✓ 3. $2\sqrt{5}$
- ✗ 4. $3\sqrt{5}$

**Q.23** Study the given table and answer the question that follows.

The table shows the number of students studying in six different classes of six different schools.

| School | Class V | Class VI | Class VII | Class VIII | Class IX | Class X |
|--------|---------|----------|-----------|------------|----------|---------|
| P | 152 | 160 | 145 | 156 | 147 | 144 |
| Q | 148 | 166 | 150 | 155 | 157 | 143 |
| R | 161 | 152 | 140 | 145 | 143 | 165 |
| S | 159 | 142 | 149 | 140 | 142 | 168 |
| T | 147 | 144 | 158 | 163 | 154 | 150 |
| U | 150 | 160 | 162 | 160 | 161 | 140 |
| Total | 917 | 924 | 904 | 919 | 904 | 910 |

The number of students studying in class VII from school U is what percentage of the total number of students from all the classes together from that school (rounded off to 2 digits after decimal)?

**Ans**  ✗ 1. 16.48%

✗ 2. 15.63%

✔ 3. 17.36%

✗ 4. 18.25%

---

**Q.24** Vipin can do a piece of work in 2 days; Vaibhav can do the same work in 3 days and Chirag can do the same work in 6 days. If they start working together, how many days will they take to complete the work?

**Ans**  ✗ 1. 3

✗ 2. 5

✔ 3. 1

✗ 4. 4

---

**Q.25** Simplify the following.
9 × 2 ÷ 3 of 24 - 3 ÷ 2 × (6 - 7) × 2 + 3 ÷ 3 of 5

**Ans**  ✗ 1. 4

✗ 2. 3

✔ 3. $\dfrac{69}{20}$

✗ 4. $\dfrac{9}{20}$

---

**Q.26** Julie and Soma start from the same point and walk in opposite directions. Julie walks 4 km/h faster than Soma. After 4 hours they are 40 km apart. How fast did each walk?

**Ans**  ✔ 1. Julie – 7 km/h; Soma – 3 km/h

✗ 2. Julie – 8 km/h; Soma – 4 km/h

✗ 3. Julie – 9 km/h; Soma – 5 km/h

✗ 4. Julie – 10 km/h; Soma – 6 km/h

**Q.27** What will be the area of a plot of quadrilateral shape, one of whose diagonals is 20 m and lengths of the perpendiculars from the opposite vertices on it are 12 m and 18 m, respectively?

**Ans**

✗ 1. 250 m$^2$

✗ 2. 400 m$^2$

✗ 3. 200 m$^2$

✓ 4. 300 m$^2$

---

**Q.28** Out of two concentric circles, the radius of the outer circle is 6 cm and the chord PQ of the length 10 cm is a tangent to the inner circle. Find the radius (in cm) of the inner circle.

**Ans**

✓ 1. $\sqrt{11}$

✗ 2. $\sqrt{7}$

✗ 3. $\sqrt{13}$

✗ 4. $4$

---

**Q.29** Find the amount (integral value only) if a sum of ₹6,500 is being borrowed at 10% interest per annum for 2 years if interest is compounded half-yearly.

**Ans**

✓ 1. ₹7,900

✗ 2. ₹8,150

✗ 3. ₹8,250

✗ 4. ₹7,650

---

**Q.30** Two metallic balls P and Q are such that the diameter of P is four times the diameter of Q. What is the ratio between the volumes of P and Q?

**Ans**

✗ 1. 8:1

✗ 2. 16:1

✓ 3. 64:1

✗ 4. 32:1

---

**Q.31** The following table shows the data of 10th grade students of Portland High school.

|  | Boys | Girls |
|---|---|---|
| Enrolled in Science | 25 | 20 |
| Not enrolled in Science | 20 | 30 |

What is the approximate percentage of the 10th grade boys of Portland High school who are NOT enrolled in Science?

**Ans**

✗ 1. 33.33%

✗ 2. 55.55%

✗ 3. 22.22%

✓ 4. 44.44%

**Q.32** Study the following table carefully and answer the questions based on it.

The following table shows the domestic sales of vehicles of four manufacturers from 2010 to 2015.

| Manufacturer | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|---|---|---|---|---|---|---|
| A | 560000 | 580000 | 600000 | 620000 | 650000 | 680000 |
| B | 540000 | 590000 | 570000 | 630000 | 710000 | 550000 |
| C | 610000 | 580000 | 620000 | 680000 | 690000 | 630000 |
| D | 630000 | 570000 | 700000 | 690000 | 700000 | 640000 |

With respect to which of the following combinations, is the sales of vehicles lowest over the given period?

**Ans** ✔ 1. B, 2010

✘ 2. B, 2015

✘ 3. A, 2011

✘ 4. A, 2010

**Q.33** The difference between a discount of 30% on ₹5,000 and two successive discounts of 15% and 25% on the same amount is:

**Ans** ✔ 1. ₹312.50

✘ 2. ₹350.50

✘ 3. ₹412.50

✘ 4. ₹315.50

**Q.34** A person sold two cars for ₹60,000 each. On one, he gained 20% while on the other he lost 20%. Find the percentage of his gain or loss.

**Ans** ✘ 1. No profit and no loss

✔ 2. Loss 4%

✘ 3. Loss 2%

✘ 4. Gain 4%

**Q.35** Which of the following ratios is the greatest?

**Ans** ✘ 1. 7 : 10

✘ 2. 1 : 3

✔ 3. 5 : 6

✘ 4. 2 : 5

**Q.36** Robert takes twice as much time as Tom and thrice as much time as George to complete a work. If working together, they can complete it in 23 hours, then find the time that Tom will take to complete the work.

**Ans** ✘ 1. 39 hours

✘ 2. 46 hours

✔ 3. 69 hours

✘ 4. 11 hours

**Q.37** What will be the least number which when doubled will be exactly divisible by 12, 14, 16 and 18?

**Ans** ✘ 1. 636

✘ 2. 226

✘ 3. 428

✔ 4. 504

**Q.38** The curved surface area of a solid cylinder of height 15 cm is 660 cm$^2$. What is the volume (in cm$^3$) of the cylinder? (Take $\pi = \frac{22}{7}$)

Ans ✗ 1. 2060

✗ 2. 3210

✗ 3. 2540

✔ 4. 2310

**Q.39** A sum amounts to ₹7,656 in 4 years and to ₹8,120 in 5 years at a certain simple interest rate per cent per annum. The rate of interest is:

Ans ✗ 1. 4%

✗ 2. 3%

✗ 3. 7%

✔ 4. 8%

**Q.40** A train of length 180 m takes 40 seconds to cross a tunnel of length 500 m. What is the speed of the train, in km/h?

Ans ✗ 1. 80.5

✗ 2. 52.5

✔ 3. 61.2

✗ 4. 71.2

**Q.41** A can do a certain piece of work in 2.4 times the number of days in which B and C together can do it. If A and B together can do the said piece of work in 27 days and C alone can do it in 75 days, then how many days will B take to do this piece of work alone?

Ans ✗ 1. 42

✗ 2. 54

✗ 3. 48

✔ 4. 45

**Q.42** If $\dfrac{x}{4y} = \dfrac{3}{4}$, then the value of $\dfrac{2x + 3y}{x - 2y}$ is:

Ans ✗ 1. 8

✗ 2. 6

✔ 3. 9

✗ 4. 7

**Q.43** Two successive discounts of 30% and 20% are equivalent to a single discount of:

Ans ✔ 1. 44%

✗ 2. 50%

✗ 3. 45%

✗ 4. 52%

**Q.44** Study the given table and answer the question that follows.
The table shows the number of employees in five different organisations A, B, C, D and E in different departments.

| Dept ↓ Org→ | A | B | C | D | E |
|---|---|---|---|---|---|
| HR | 1050 | 1015 | 976 | 888 | 1004 |
| Finance | 1017 | 960 | 786 | 1025 | 963 |
| Marketing | 1382 | 1384 | 1275 | 1300 | 1290 |
| Production | 1542 | 1545 | 4550 | 1570 | 1580 |
| Accounts | 786 | 745 | 801 | 800 | 735 |
| Legal | 48 | 54 | 36 | 30 | 53 |
| Total | 5825 | 5703 | 5424 | 5613 | 5625 |

Which organisation has maximum number of employees?

**Ans**
✔ 1. A

✘ 2. E

✘ 3. B

✘ 4. D

---

**Q.45** A runner runs a 750-metre race in 54 seconds. Find the runner's speed (in km/h).

**Ans** ✘ 1. 40

✘ 2. 30

✘ 3. 14

✔ 4. 50

---

**Q.46** The total surface area of a cone whose radius is 3 cm and height is 4 cm is:

**Ans**
✘ 1. $\frac{475}{8}$ cm$^2$

✘ 2. $\frac{501}{9}$ cm$^2$

✔ 3. $\frac{528}{7}$ cm$^2$

✘ 4. $\frac{425}{7}$ cm$^2$

---

**Q.47** Three candidates contested an election and won 1136, 7636 and 11628 votes, respectively. What percentage of the total votes did the winning candidate get?

**Ans**
✔ 1. 57

✘ 2. 45

✘ 3. 33

✘ 4. 49

**Q.48** Study the following pie chart and answer the below question:

**Total estimated yearly expenses: 300000**

■ Food items ■ Travel ■ Education ■ Rent ■ Savings ■ Others
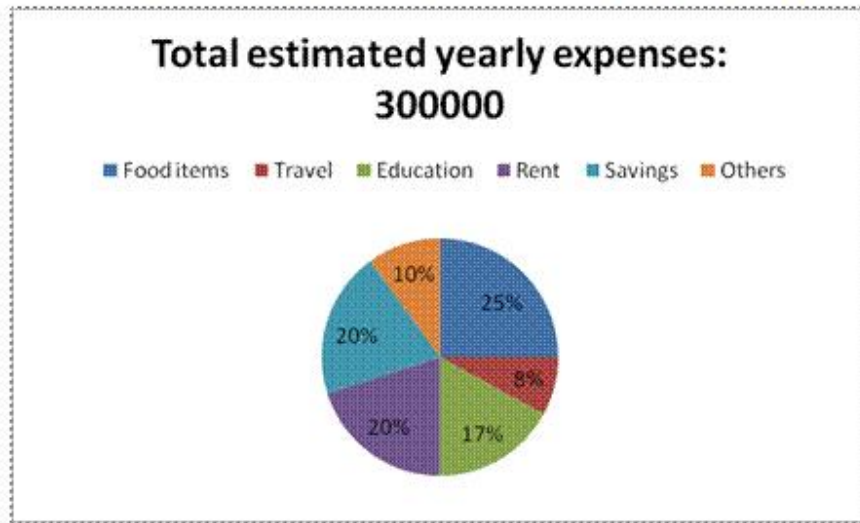


How much per cent is more expense on rent than the expense on others?

**Ans**
✗ 1. 150%

✗ 2. 10%

✗ 3. 50%

✔ 4. 100%

---

**Q.49** Find the LCM of 20, 30, 45 and 65.

**Ans**
✗ 1. 180

✗ 2. 2000

✗ 3. 2240

✔ 4. 2340

---

**Q.50** Two circles touch each other externally at C. AB is a direct common tangent to the two circles, A and B are points of contact and ∠CAB = 55°. Then ∠ACB is:

**Ans**
✔ 1. 90°

✗ 2. 55°

✗ 3. 35°

✗ 4. 45°

---

**Q.1** Select the option that can be used as a one-word substitute for the given group of words.
A person who eats too much

**Ans**
✔ 1. Glutton

✗ 2. Gullible

✗ 3. Garrulous

✗ 4. Greedy

---

**Q.2** Select the most appropriate synonym of the given word.

Diabolical

**Ans**
✗ 1. Sophisticated

✗ 2. Sycophant

✗ 3. Celestial

✔ 4. Malicious

**Q.3** The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

He are very thirsty. / Give him / a little water to drink.

**Ans** ✔ 1. He are very thirsty

✘ 2. No error

✘ 3. a little water to drink

✘ 4. Give him

**Q.4** Select the correctly spelt sentence.

**Ans** ✘ 1. The country's GDP bloomed dispite the ongoing war situation.

✘ 2. The country's GDP bloomed despete the ongoing war sitution

✘ 3. The country's GDP bloomed dispete the ongoing war situation.

✔ 4. The country's GDP bloomed despite the ongoing war situation.

**Q.5** Select the most appropriate ANTONYM of the underlined word in the given sentence.

The court <u>absolved</u> the defendant of all charges due to lack of evidence.

**Ans** ✘ 1. condemned

✘ 2. criticised

✘ 3. attacked

✔ 4. accused

**Q.6** Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

The cat climbed a tree and <u>perched</u> itself on a branch.

**Ans** ✘ 1. perked

✘ 2. perished

✔ 3. No substitution required

✘ 4. parched

**Q.7** Select the most appropriate option to fill in the blank.

Being courteous _____ costs you nothing.

**Ans** ✔ 1. No article required

✘ 2. a

✘ 3. the

✘ 4. an

**Q.8** Select the most appropriate meaning of the given idiom.
Hear someone out

**Ans** ✘ 1. Dismiss someone from listening to you

✘ 2. Keep someone out

✘ 3. Hear from far away

✔ 4. Let someone complete what they are saying

**Q.9** Select the most appropriate ANTONYM for the highlighted word.
They drank some spurious drink and fainted.

Ans    ✗ 1. artificial

     ✗ 2. nefarious

     ✓ 3. genuine

     ✗ 4. curious

**Q.10** The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.
I am sure Helena / would passes / with flying colours.

Ans    ✓ 1. would passes

     ✗ 2. I am sure Helena

     ✗ 3. with flying colours

     ✗ 4. No error

**Q.11** Select the most appropriate ANTONYM of the given word.
Calm

Ans    ✗ 1. Confused

     ✗ 2. Shocked

     ✗ 3. Variable

     ✓ 4. Turbulent

**Q.12** Select the most appropriate ANTONYM of the given word.

Ethical

Ans    ✗ 1. Mourning

     ✗ 2. Discord

     ✗ 3. Joyous

     ✓ 4. Immoral

**Q.13** Select the most appropriate meaning of the given idiom.
Pull yourself together

Ans    ✗ 1. Feel agitated

     ✗ 2. Discourage the orphans

     ✓ 3. Calm down after an upsetting incident

     ✗ 4. Encourage the rich

**Q.14** Select the option that can be used as a one-word substitute for the given group of words.
Study of coins

Ans    ✓ 1. Numismatics

     ✗ 2. Apothecary

     ✗ 3. Philately

     ✗ 4. Antiquary

**Q.15** Select the most appropriate meaning of the given idiom.

Bite your tongue

Ans    ✓ 1. To avoid saying something

     ✗ 2. To have something explored

     ✗ 3. To scold someone verbally

     ✗ 4. To drink very heavily

**Q.16** Select the INCORRECTLY spelt word

**Ans** ✗ 1. Legitimate

✗ 2. Promulgate

✓ 3. Exagerate

✗ 4. Propagate

**Q.17** Select the most appropriate meaning of the underlined idiom.
Doctors are raising <u>hue and cry</u> against the RTH bill.

**Ans** ✗ 1. Abandon

✗ 2. Enquire

✗ 3. Postpone

✓ 4. Protest

**Q.18** Select the most appropriate meaning of the given idiom.
To let the cat out of the bag

**Ans** ✓ 1. To reveal a secret

✗ 2. To hide the truth

✗ 3. To be in a hurry

✗ 4. To be careful

**Q.19** Select the most appropriate ANTONYM of the given word.

**Sluggish**

**Ans** ✗ 1. Abnormal

✗ 2. Slow

✓ 3. Swift

✗ 4. Utterly

**Q.20** Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.
The teacher asked the students to <u>be quite</u> during the exam.

**Ans** ✗ 1. been quiet

✗ 2. have quiet

✓ 3. be quiet

✗ 4. No substitution

**Q.21** Select the most appropriate meaning of the underlined idiom.
I did not even listen to him; he was only <u>talking through his hat</u>.

**Ans** ✗ 1. Talking ignorantly

✗ 2. Talking non-stop

✗ 3. Talking garrulously

✓ 4. Talking nonsense

**Q.22** Select the most appropriate idiom to fill in the blank and complete the meaning of the sentence.

Most of the ministers are concerned with the _____ of office than the service of man.

**Ans** ✗ 1. leaps and bounds

✗ 2. wear and tear

✓ 3. loaves and fishes

✗ 4. Herculean task

**Q.23** Select the option that can be used as a one-word substitute for the underlined group of words.

Children and adolescents with <u>a morbid compulsion to steal</u> experience a growing sense of tension just before stealing, followed by pleasure, relief or gratification during or just after stealing.

**Ans** ✗ 1. Megalomania

✓ 2. Kleptomania

✗ 3. Dipsomania

✗ 4. Pyromania

**Q.24** Select the most appropriate option that can substitute the underlined segment in the given sentence.

The platter was <u>insipid</u>, so we refused to pay the bill.

**Ans** ✓ 1. lacking taste

✗ 2. full of flavours

✗ 3. filled with dirt

✗ 4. full of spices

**Q.25** Select the most appropriate ANTONYM of the given word.
**Profane**

**Ans** ✗ 1. Barnyard

✗ 2. Immaterial

✗ 3. Perverse

✓ 4. Divine

**Q.26** Select the most appropriate option that can substitute the underlined segment in the given sentence.
Fifty rupees <u>feels</u> too much for such a pen.

**Ans** ✓ 1. seems

✗ 2. looks

✗ 3. price

✗ 4. minds

**Q.27** Select the most appropriate option that can substitute the underlined segment in the given sentence.

The manager noticed a <u>discrepancy</u> between the two audit reports.

**Ans** ✗ 1. deliberate mistake

✓ 2. major difference

✗ 3. selfish interest

✗ 4. great similarity

**Q.28** Select the most appropriate synonym of the given word.

**Major**

**Ans** ✗ 1. Creviced

✓ 2. Considerable

✗ 3. Diligent

✗ 4. Shallow

**Q.29** Select the most appropriate synonym of the given word.
Vagrancy

**Ans** ✓ 1. Vagabond

✗ 2. Vagueness

✗ 3. Fragrance

✗ 4. Exploration

**Q.30** The following sentence has been split into four segments. Identify the segment that contains a grammatical error.
One of their freighters, / a Neptune, / will be leaving/ in two weeks.

**Ans** ✗ 1. One of their freighters

✗ 2. will be leaving

✓ 3. a Neptune

✗ 4. in two weeks

**Q.31** Select the most appropriate meaning of the given idiom.
Build castles in the air

**Ans** ✗ 1. To make useless efforts

✗ 2. To build a palatial house

✓ 3. To make imaginary schemes

✗ 4. To talk pointlessly

**Q.32** Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.
Despite of an injury, he won the match.

**Ans** ✗ 1.  In spite off

✓ 2.  Despite

✗ 3. In despite of

✗ 4. No substitution required

**Q.33** Select the INCORRECTLY spelt word from the underlined words in the following sentence.
But he waited with the inconceivable patience and persistancy of the race; besides, he was certain, the cat was a creature of absolute convictions and his faith in his deductions never wavered.

**Ans** ✗ 1. convictions

✗ 2. deductions

✓ 3. persistancy

✗ 4. inconceivable

**Q.34** Select the INCORRECTLY spelt word.

**Ans** ✓ 1. Comutter

✗ 2. Committee

✗ 3. Camouflage

✗ 4. Commission

**Q.35** Select the most appropriate meaning of the underlined idiom.

Technology has become a part and parcel of modern lifestyle.

**Ans** ✗ 1. a useless part

✗ 2. a myth

✓ 3. an integral part

✗ 4. an obstacle

**Q.36** **Select the most appropriate idiom for the given situation focusing on the underlined segment.**

I know every detail of his accident because I <u>heard the facts directly</u> from him.

**Ans** ✔ 1. Straight from horse's mouth

✘ 2. Get something out of your system

✘ 3. Pour one's heart out

✘ 4. Speak of the devil

---

**Q.37** **Identify the option that rectifies the underlined spelling error in the given sentence.**
<u>Mountainering</u> is now looked upon as the king of sports.

**Ans** ✘ 1. Mountainouring

✔ 2. Mountaineering

✘ 3. Mountainearing

✘ 4. Mounteineering

---

**Q.38** **Select the most appropriate ANTONYM of the given word.**

**Hideous**

**Ans** ✔ 1. Attractive

✘ 2. Restorative

✘ 3. Healthful

✘ 4. Lament

---

**Q.39** **Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'.**
Lily <u>has dedicate</u> her life towards becoming a doctor.

**Ans** ✘ 1. No improvement required

✘ 2.  is dedicate

✔ 3.  has dedicated

✘ 4.  had dedicate

---

**Q.40** **Identify the error in tense and choose the correct form of the verb in present tense from the following options.**
My teacher often forget the name of students.

**Ans** ✘ 1. was forgetting

✘ 2. forgot

✔ 3. forgets

✘ 4. have been forgetting

---

**Comprehension:**

In the following passage some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
The concept of motivation focuses on explaining what 'moves' behaviour. In fact, the term (1)_____ is derived from the Latin word 'movere', referring to movement of activity. Most of our everyday explanation of (2)_____ is given in terms of motives. Motives also help in making (3)_____ about behaviour. A person will work hard in school, in sports, in business, in music, and in many other situations, if he/she has a very strong need for (4)_____. Hence, motives are the general states that enable us to make predictions about behaviour in many different situations. In other words, motivation is one of the (5)_____ of behaviour. Instincts, drives, needs, goals, and incentives come under the broad cluster of motivation.

**SubQuestion No : 41**

**Q.41** **Select the most appropriate option to fill in blank number 1.**

**Ans** ✘ 1. human behaviour

✘ 2. instinct

✔ 3. motivation

✘ 4. psychology

**Comprehension:**

In the following passage some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The concept of motivation focuses on explaining what 'moves' behaviour. In fact, the term (1)_____ is derived from the Latin word 'movere', referring to movement of activity. Most of our everyday explanation of (2)_____ is given in terms of motives. Motives also help in making (3)_____ about behaviour. A person will work hard in school, in sports, in business, in music, and in many other situations, if he/she has a very strong need for (4)_____. Hence, motives are the general states that enable us to make predictions about behaviour in many different situations. In other words, motivation is one of the (5)_____ of behaviour. Instincts, drives, needs, goals, and incentives come under the broad cluster of motivation.

**SubQuestion No : 42**

**Q.42** **Select the most appropriate option to fill in blank number 2.**

Ans  ✔ 1. behaviour

 ✘ 2. motivation

 ✘ 3. goal

 ✘ 4. incentive

---

**Comprehension:**

In the following passage some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The concept of motivation focuses on explaining what 'moves' behaviour. In fact, the term (1)_____ is derived from the Latin word 'movere', referring to movement of activity. Most of our everyday explanation of (2)_____ is given in terms of motives. Motives also help in making (3)_____ about behaviour. A person will work hard in school, in sports, in business, in music, and in many other situations, if he/she has a very strong need for (4)_____. Hence, motives are the general states that enable us to make predictions about behaviour in many different situations. In other words, motivation is one of the (5)_____ of behaviour. Instincts, drives, needs, goals, and incentives come under the broad cluster of motivation.

**SubQuestion No : 43**

**Q.43** **Select the most appropriate option to fill in blank number 3.**

Ans  ✘ 1. directions

 ✔ 2. predictions

 ✘ 3. decisions

 ✘ 4. clarifications

---

**Comprehension:**

In the following passage some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The concept of motivation focuses on explaining what 'moves' behaviour. In fact, the term (1)_____ is derived from the Latin word 'movere', referring to movement of activity. Most of our everyday explanation of (2)_____ is given in terms of motives. Motives also help in making (3)_____ about behaviour. A person will work hard in school, in sports, in business, in music, and in many other situations, if he/she has a very strong need for (4)_____. Hence, motives are the general states that enable us to make predictions about behaviour in many different situations. In other words, motivation is one of the (5)_____ of behaviour. Instincts, drives, needs, goals, and incentives come under the broad cluster of motivation.

**SubQuestion No : 44**

**Q.44** **Select the most appropriate option to fill in blank number 4.**

Ans  ✘ 1. motivation

 ✘ 2. desire

 ✘ 3. grow

 ✔ 4. achievements

**Comprehension:**

In the following passage some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The concept of motivation focuses on explaining what 'moves' behaviour. In fact, the term (1)_____ is derived from the Latin word 'movere', referring to movement of activity. Most of our everyday explanation of (2)_____ is given in terms of motives. Motives also help in making (3)_____ about behaviour. A person will work hard in school, in sports, in business, in music, and in many other situations, if he/she has a very strong need for (4)_____. Hence, motives are the general states that enable us to make predictions about behaviour in many different situations. In other words, motivation is one of the (5)_____ of behaviour. Instincts, drives, needs, goals, and incentives come under the broad cluster of motivation.

**SubQuestion No : 45**

**Q.45** **Select the most appropriate option to fill in blank number 5.**

Ans ✗ 1. meaning

✗ 2. ways

✓ 3. determinants

✗ 4. causes

---

**Comprehension:**

Read the given passage carefully and answer the questions that follow.

The rise of social media has undoubtedly changed the way we communicate with one another. It has connected people from all over the world and provided a platform for voices that were once silenced. However, as with any form of communication, social media has its downsides.

One of the most significant downsides is the spread of misinformation. With the rise of social media, anyone can become a content creator, which means that anyone can share information without fact-checking or considering the consequences. This has led to a proliferation of false information, from conspiracy theories to hoaxes, that can quickly spread and cause harm.

One recent example of this is the COVID-19 pandemic. Social media has played a significant role in the spread of misinformation about the virus and the vaccines. False claims about the safety and effectiveness of the vaccines have caused many people to be hesitant or outright refuse to get vaccinated. This, in turn, has led to the prolongation of the pandemic and the loss of many lives. The spread of misinformation on social media is not a new phenomenon. In fact, it has been around for centuries. However, the speed and ease with which misinformation can spread on social media have made it a particularly pernicious problem in our modern world.

Throughout history, misinformation has been used to sow discord and manipulate people. For example, during World War II, the Nazi regime used propaganda to spread false information about Jews, Roma, and other targeted groups in order to justify their persecution and ultimately their extermination. Similarly, during the Cold War, both the United States and the Soviet Union used propaganda to demonise one another and sway public opinion.

The difference now is that social media has made it easier than ever to spread false information. A single post or tweet can reach millions of people within seconds, and it can be difficult to counteract the effects of that misinformation once it has spread.

So, what can we do about it? The answer is not simple, but it starts with education. We need to teach people how to think critically, how to fact-check, and how to discern between credible sources and fake news. We also need to hold social media companies accountable for the content on their platforms and ensure that they are doing their part to combat the spread of misinformation.

In short, the rise of social media has given us a powerful tool for communication, but we must use it wisely. We must be vigilant against the spread of misinformation and work together to ensure that the information we consume and share is accurate and reliable.

**SubQuestion No : 46**

**Q.46** **According to the passage, which of the following is NOT a cause of the spread of false information on social media?**

Ans ✗ 1. Social media companies' failure to regulate false information on their platforms.

✗ 2. Lack of education and critical thinking skills among social media users.

✗ 3. Inability to discern between credible sources and fake news.

✓ 4. The desire of people to engage in controversial and sensational content.

**Comprehension:**

Read the given passage carefully and answer the questions that follow.

The rise of social media has undoubtedly changed the way we communicate with one another. It has connected people from all over the world and provided a platform for voices that were once silenced. However, as with any form of communication, social media has its downsides.

One of the most significant downsides is the spread of misinformation. With the rise of social media, anyone can become a content creator, which means that anyone can share information without fact-checking or considering the consequences. This has led to a proliferation of false information, from conspiracy theories to hoaxes, that can quickly spread and cause harm.

One recent example of this is the COVID-19 pandemic. Social media has played a significant role in the spread of misinformation about the virus and the vaccines. False claims about the safety and effectiveness of the vaccines have caused many people to be hesitant or outright refuse to get vaccinated. This, in turn, has led to the prolongation of the pandemic and the loss of many lives. The spread of misinformation on social media is not a new phenomenon. In fact, it has been around for centuries. However, the speed and ease with which misinformation can spread on social media have made it a particularly pernicious problem in our modern world.

Throughout history, misinformation has been used to sow discord and manipulate people. For example, during World War II, the Nazi regime used propaganda to spread false information about Jews, Roma, and other targeted groups in order to justify their persecution and ultimately their extermination. Similarly, during the Cold War, both the United States and the Soviet Union used propaganda to demonise one another and sway public opinion.

The difference now is that social media has made it easier than ever to spread false information. A single post or tweet can reach millions of people within seconds, and it can be difficult to counteract the effects of that misinformation once it has spread.

So, what can we do about it? The answer is not simple, but it starts with education. We need to teach people how to think critically, how to fact-check, and how to discern between credible sources and fake news. We also need to hold social media companies accountable for the content on their platforms and ensure that they are doing their part to combat the spread of misinformation.

In short, the rise of social media has given us a powerful tool for communication, but we must use it wisely. We must be vigilant against the spread of misinformation and work together to ensure that the information we consume and share is accurate and reliable.

**SubQuestion No : 47**

**Q.47  What is the ANTONYM of the word 'accurate', " as used in the passage?**

**Ans**   ✗ 1. Correct

✓ 2. Inexact

✗ 3. Precise

✗ 4. Reliable

---

**SubQuestion No : 48**

**Q.48  What is the author's opinion of social media in this passage?**

**Ans**   ✓ 1. Social media has changed the way we communicate, but has also brought about significant negative consequences.

✗ 2. Social media is responsible for the spread of false information, but its impact on society is otherwise neutral.

✗ 3. Social media is a powerful tool for communication that has many benefits.

✗ 4. Social media has had a mostly positive impact on society, despite some drawbacks.

**Comprehension:**

Read the given passage carefully and answer the questions that follow.

The rise of social media has undoubtedly changed the way we communicate with one another. It has connected people from all over the world and provided a platform for voices that were once silenced. However, as with any form of communication, social media has its downsides.

One of the most significant downsides is the spread of misinformation. With the rise of social media, anyone can become a content creator, which means that anyone can share information without fact-checking or considering the consequences. This has led to a proliferation of false information, from conspiracy theories to hoaxes, that can quickly spread and cause harm.

One recent example of this is the COVID-19 pandemic. Social media has played a significant role in the spread of misinformation about the virus and the vaccines. False claims about the safety and effectiveness of the vaccines have caused many people to be hesitant or outright refuse to get vaccinated. This, in turn, has led to the prolongation of the pandemic and the loss of many lives.

The spread of misinformation on social media is not a new phenomenon. In fact, it has been around for centuries. However, the speed and ease with which misinformation can spread on social media have made it a particularly pernicious problem in our modern world.

Throughout history, misinformation has been used to sow discord and manipulate people. For example, during World War II, the Nazi regime used propaganda to spread false information about Jews, Roma, and other targeted groups in order to justify their persecution and ultimately their extermination. Similarly, during the Cold War, both the United States and the Soviet Union used propaganda to demonise one another and sway public opinion.

The difference now is that social media has made it easier than ever to spread false information. A single post or tweet can reach millions of people within seconds, and it can be difficult to counteract the effects of that misinformation once it has spread.

So, what can we do about it? The answer is not simple, but it starts with education. We need to teach people how to think critically, how to fact-check, and how to discern between credible sources and fake news. We also need to hold social media companies accountable for the content on their platforms and ensure that they are doing their part to combat the spread of misinformation.

In short, the rise of social media has given us a powerful tool for communication, but we must use it wisely. We must be vigilant against the spread of misinformation and work together to ensure that the information we consume and share is accurate and reliable.

**SubQuestion No : 49**

**Q.49  Identify the main theme of the passage.**

Ans      ✗ 1. The role of education in combating misinformation.

         ✗ 2. The significance of propaganda and misinformation.

         ✔ 3. The dangers of spreading false information on social media.

         ✗ 4. The benefits of social media for communication.

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**SubQuestion No : 50**

**Q.50  What is the author's purpose in writing this passage?**

Ans      ✔ 1. To warn readers of the dangers of spreading false information on social media.

         ✗ 2. To explain the history of propaganda and misinformation and its impact on society.

         ✗ 3. To persuade readers to delete their social media accounts.

         ✗ 4. To provide an in-depth analysis of the benefits of social media for communication.

**Q.1** Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.

**Ans**
❌ 1. GIET

✅ 2. SQUH

❌ 3. CEAX

❌ 4. MOKN

**Q.2** Select the set in which the numbers are related in the same way as are the numbers of the following set.

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/ subtracting/ multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)

(5, 4, 2)
(9, 9, 3)

**Ans**
✅ 1. (21,39,1)

❌ 2. (5,2,6)

❌ 3. (17,6,5)

❌ 4. (24,43,34)

**Q.3** In a certain code language, 'BLOCK' is coded as LBCON and 'CABIN' is coded as ACIBQ. How will 'SUITE' be coded in the same language?

**Ans**
✅ 1. USTIH

❌ 2. ETHUS

❌ 3. USHTI

❌ 4. UTSEH

**Q.4** Stanley starts cycling from Point A. He cycles X km towards the west and then turns right and cycles 3 km. He again turns right and cycles for X+1 km. He again turns right and cycles for 2X+1 km. He takes a final right turn and cycles for 1 km to stop at Point B. Point B is 6 km south of Point A. What is the value of X?

**Ans**
❌ 1. 9

❌ 2. 5

❌ 3. 3

✅ 4. 4

**Q.5** Six characters A, B, C, 1, 2 and 3 are written on different faces of a dice. Two positions of this dice are shown in the figure. Find the character on the face opposite to C.
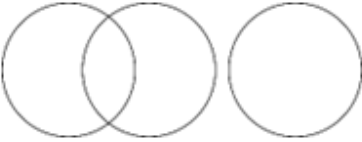


**Ans**
❌ 1. A

❌ 2. 3

✅ 3. 2

❌ 4. B

**Q.6** Select the Venn diagram that best illustrates the relationship between the following classes.
Clothes, Shoes, Shirts

**Ans**

✗ 1. 

✗ 2. 

✔ 3. 

✗ 4. 

---
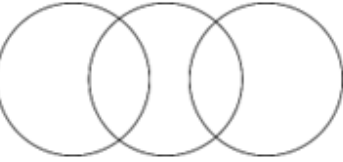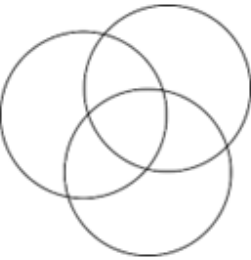
**Q.7** Which of the following numbers will replace the question mark (?) in the given series?
5, 20, 60, 240, 720, ?

**Ans** ✗ 1. 2580

✗ 2. 2675

✔ 3. 2880

✗ 4. 2160

---

**Q.8** Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

(112, 327, 215), (98, 254, 156)

**Ans** ✗ 1. (105, 347, 322)

✗ 2. (108, 209, 184)

✔ 3. (126, 268, 142)

✗ 4. (281, 490,309)

---

**Q.9** Q + J means "Q is the Husband of J"
Q – J means "Q is the Father of J"
Q × J means "Q is the Mother of J"
Q * J means "Q is the Daughter of J"

If D * V + B × U, how is D related to U?

**Ans** ✗ 1. Mother

✔ 2. Sister

✗ 3. Brother

✗ 4. Daughter

**Q.10** When the following figure is folded to form a cube, which letter-number will be on the face opposite to the face showing the letter-number 'A1'?

(The elements are shown to indicate the sides only.)

| | U5 | |
|---|---|---|
| | O4 | Z6 |
| | A1 | |
| I3 | E2 | |

**Ans** ✗ 1. O4
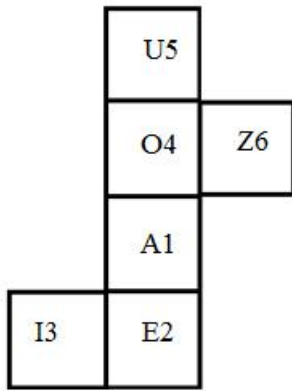
✗ 2. E2

✗ 3. I3

✔ 4. U5

---

**Q.11** Select the option that represents the letters that, when sequentially placed in the blanks below, will complete the letter-series.
a, b, a, b, b, _, a, b, a, b, _, a, a, b, a, b, b, _

**Ans** ✗ 1. a, a, a

✗ 2. b, a, b

✔ 3. a, b, a

✗ 4. b, b, b

---

**Q.12** Which letter-cluster will replace the question mark (?) to complete the given series?
BRCQ, EPFO, ?, KLLK, NJOI

**Ans** ✗ 1. GINO

✗ 2. HINO

✔ 3. HNIM

✗ 4. GNMI

---

**Q.13** Q is to the east of S. E is to the south of S. P is to the north-east of Q and north of T. If T is to the south-east of Q, what is the position of S with respect to T? (All positions are arranged in GRID pattern)

**Ans** ✗ 1. South-west

✗ 2. South-east

✗ 3. West

✔ 4. North-west

---

**Q.14** Seven people, A, B, C, D, E, F and G, are sitting in a straight row, facing north. Only 2 people sit to the right of D. G is an immediate neighbour of D. Only 3 people sit between A and G. Only 2 people sit between B and C. E is not an immediate neighbour of C. F sits to the immediate right of G.
Who sits to the immediate left of A?

**Ans** ✗ 1. B

✔ 2. C

✗ 3. D

✗ 4. E

**Q.15** Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the odd letter-cluster.

**Ans**

❌ 1. POTU

❌ 2. HGLM

✅ 3. DBGH

❌ 4. SRWX

---

**Q.16** If '+' means '−', '−' means '×', '×' means '÷', '÷' means '+', then what will come in place of the question mark (?) in the following equation?
$39 × 3 − 11 ÷ 57 + 29 = ?$

**Ans**

✅ 1. 171

❌ 2. 185

❌ 3. 190

❌ 4. 163

---

**Q.17** Select the option that represents the correct order of the given words as they would appear in an English dictionary?
1.Brochure
2.Brine
3.Bright
4.Brief
5.Brocade

**Ans**

❌ 1. 3, 2, 5, 4, 1

❌ 2. 1, 2, 3, 4, 5

✅ 3. 4, 3, 2, 5, 1

❌ 4. 1, 2, 3, 5, 4

---

**Q.18** Two statements are given followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.
**Statements:**
**All keys are locks.**
**No door is a lock.**
**Conclusions:**
**I. Some locks are doors.**
**II. Some locks are keys.**
**III. No key is a door.**

**Ans**

❌ 1. Both conclusions I and II follow.

❌ 2. Both conclusions I and III follow.

✅ 3. Both conclusions II and III follow.

❌ 4. Conclusions I, II and III follow.

---

**Q.19** Which letter-cluster will replace the question mark (?) to complete the given series?
**FOHV, CKER, ?, WCYJ, TYVF**

**Ans**

✅ 1. ZGBN

❌ 2. XHBM

❌ 3. AHCO

❌ 4. AFCP

**Q.20** Which of the given figures when placed in the 5th position would continue the series that is established by the first four figures?
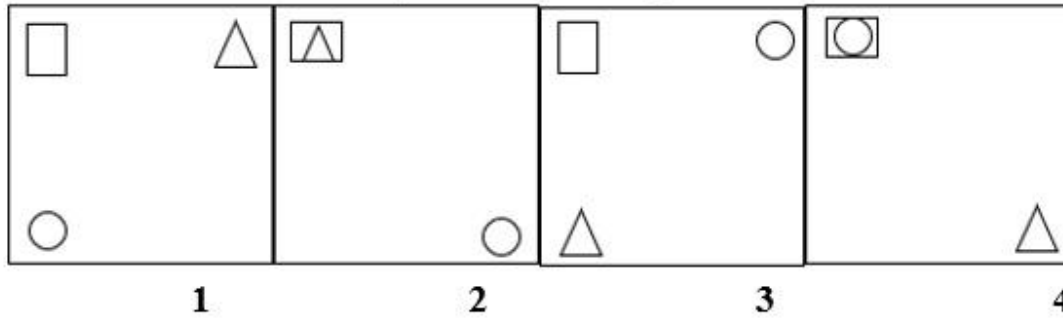


**Ans**

✗ 1. 
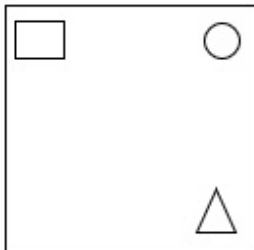
✗ 2. 
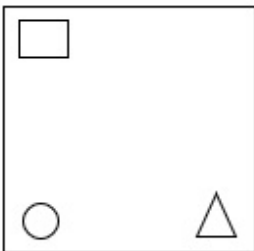
✔ 3. 
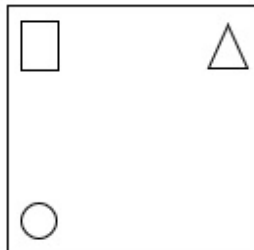
✗ 4. 

---
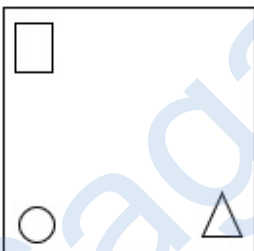
**Q.21** In a certain code language, 'SPAM' is coded as '36' and 'JUG' is coded as '27'. How will 'FROCK' be coded in that language?

**Ans**
✔ 1. 45

✗ 2. 90

✗ 3. 48

✗ 4. 72

---

**Q.22** Which two signs should be interchanged to make the given equation correct?
42 ÷ 7 + 11 × 87 − 12 = 141

**Ans**
✗ 1. − and ×

✔ 2. x and +

✗ 3. ÷ and −

✗ 4. ÷ and +

**Q.23** A paper is folded and cut as shown below. How will it appear when unfolded?



**Ans**

1.  ✗

2.  ✔

3.  ✗

4.  ✗

---
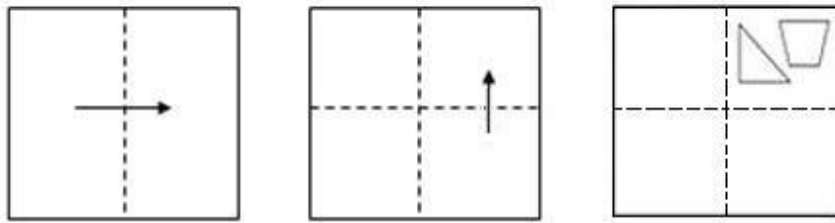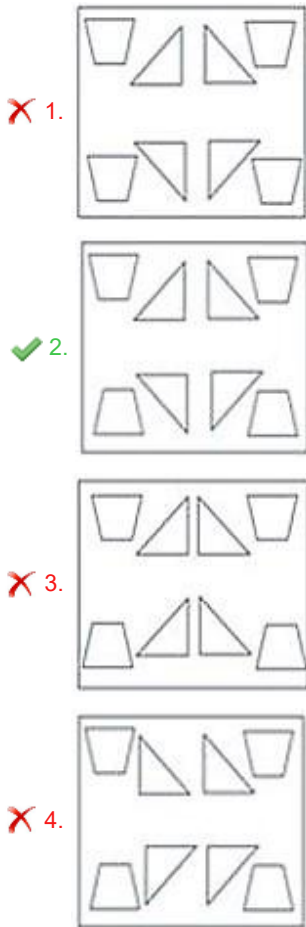
**Q.24** If A denotes '+', B denotes '×', C denotes '−', and D denotes '÷', then what will be the value of the following equation?
11 B 12 C 144 D 24 A 57 = ?

**Ans** ✗ 1. 186

✗ 2. 160

✗ 3. 180

✔ 4. 183

---

**Q.25** 'T + U' means 'T is the mother of U'.
'T − U' means 'T is the father of U'.
'T $ U' means 'T is the husband of U'.
'T # U' means 'T is the daughter of U'.
If A # C $ V + X, then how is A related to X?

**Ans** ✗ 1. Father

✔ 2. Sister

✗ 3. Brother

✗ 4. Daughter

**Q.26** Which figure from the given options would replace the question mark (?) if the following figure series were to be continued?

| D            2 | ☆          D | A          ☆ | 2          A |       |
|----------------|--------------|--------------|--------------|-------|
|       →        |      ↗       |      ↑       |      ↖       |   ?   |
| ☆            A | A          2 | 2          D | D          ☆ |       |

Ans

✗ 1.
| D          2 |
|--------------|
|      ↙       |
| ☆          A |

✗ 2.
| D          2 |
|--------------|
|      ←       |
| A          ☆ |

✔ 3.
| D          2 |
|--------------|
|      ←       |
| ☆          A |

✗ 4.
| D          2 |
|--------------|
|      →       |
| ☆          A |
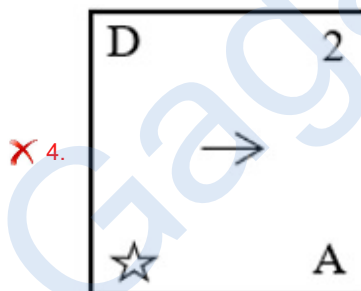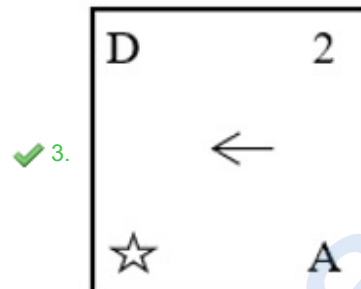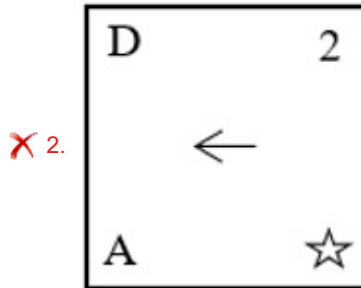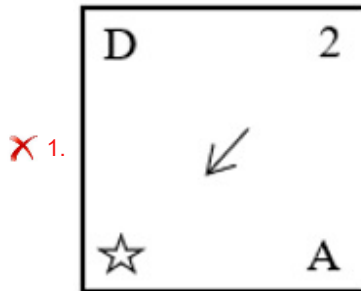
**Q.27** Which two signs should be interchanged to make the given equation correct?
39 ÷ 3 – 11+ 57 × 29 = 171

Ans   ✗ 1. ÷ and –

✔ 2. – and ×

✗ 3. ÷ and +

✗ 4. – and +

**Q.28** If M denotes '-', N denotes '÷', O denotes '×', and P denotes '+', then what will come in place of '?' in the following equation?

21 O 5 P 69 N 3 P $\sqrt{225}$ M 88 = ?

**Ans**
✗ 1. 50
✗ 2. 61
✓ 3. 55
✗ 4. 65

**Q.29** Two statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.
Statements:
All rivers are lakes.
Some seas are rivers.
Conclusion:
I)Some seas are lakes.
II)All lakes are rivers.

**Ans**
✗ 1. Neither Conclusion I nor II follows.
✗ 2. Both Conclusions I and II follow.
✗ 3. Only Conclusion II follows.
✓ 4. Only Conclusion I follows

**Q.30** Which of the following numbers will replace the question mark (?) in the given series?
270, 241, 212, ?, 154, 125

**Ans**
✗ 1. 192
✗ 2. 198
✗ 3. 186
✓ 4. 183

**Q.31** In a certain code language, 'MOBILE' is written as 'NQEMQK' and 'BISHOP' is written as 'CKVLTV'. How will 'CHARGE' be written in that language?

**Ans**
✗ 1. DJEVLJ
✗ 2. DJDVKL
✗ 3. DJDWLK
✓ 4. DJDVLK

**Q.32** If '+' means '−', '−' means '×', '×' means '÷' and '÷' means '+', what will come in place of '?' in the following equation?
79 ÷ 64 × 8 − 7 + 12 = ?

**Ans**
✓ 1. 123
✗ 2. 138
✗ 3. 117
✗ 4. 147

**Q.33** Select the Venn diagram that best illustrates the relationship between the following classes.

**Animal, Jungle, Wild Animal**

**Ans**

✗ 1. 

✔ 2. 

✗ 3. 

✗ 4. 

---

**Q.34** Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.

1. Warehouse
2. Warden
3. Warship
4. Wardrobe
5. Warrant
6. Warfare

**Ans** ✗ 1. 2, 4, 1, 5, 6, 3

✗ 2. 4, 2, 1, 6, 5, 3

✔ 3. 2, 4, 1, 6, 5, 3

✗ 4. 2, 4, 6, 5, 1, 3

---

**Q.35** Select the number from among the given options that can replace the question mark (?) in the following series.
**144, 171, 200, ?, 264**

**Ans** ✗ 1. 256

✗ 2. 225

✔ 3. 231

✗ 4. 240

---

**Q.36** Which of the following numbers will replace the question mark (?) in the given series?

**69, 65, 67, 63, ?, 61**

**Ans** ✗ 1. 60

✔ 2. 65

✗ 3. 62

✗ 4. 64

**Q.37** Six characters A, B, C, 1, 2 and 3 are written on different faces of a dice. Two positions of this dice are shown in the figure. Find the character on the face opposite to 3.
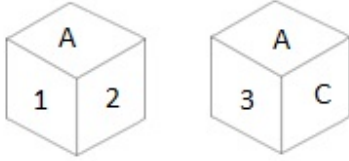


**Ans**  ✗ 1. C

✓ 2. 1

✗ 3. B

✗ 4. 2

---

**Q.38** Which two mathematical signs should be interchanged to make the given equation correct?

(45 × 2) ÷ 15 – (6 × 3) + 10 – (63 ÷ 21) = 17

**Ans**  ✗ 1. ÷ and +

✓ 2. – and +

✗ 3. ÷ and ×

✗ 4. × and –

**Q.39** The sequence of folding a piece of paper and the manner in which the folded paper is cut is shown in the following figures. How would this paper look when unfolded?



**Ans**

✗ 1. 

✗ 2. 

✗ 3. 

✔ 4. 
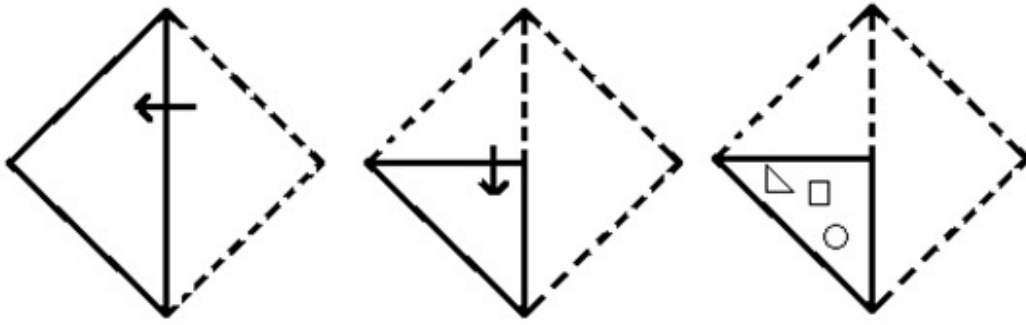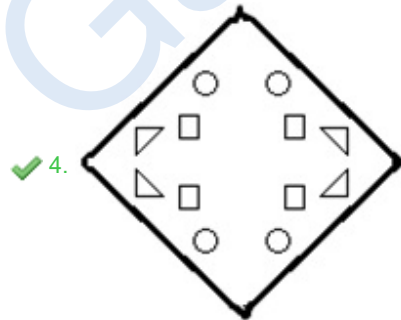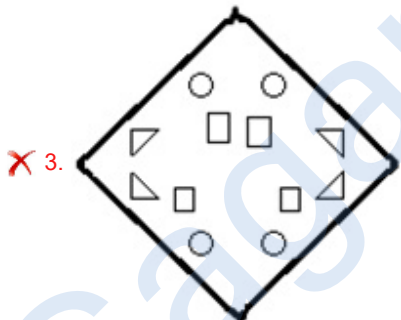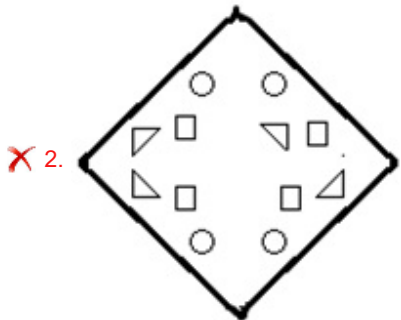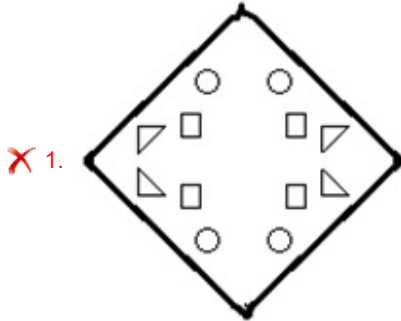
**Q.40** Select the option that is related to the third word in the same way as the second word is related to the first word.
(The words must be considered as meaningful words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

Centre : Focus :: Vicar : ?

**Ans**
✗ 1. Life

✗ 2. Riddle

✔ 3. Priest

✗ 4. Building

**Q.41** Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13- Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
(53, 36, 25)
(71, 54, 43)

**Ans**
✗ 1. (66, 53, 41)

✗ 2. (32, 14, 7)

✔ 3. (99, 82, 71)

✗ 4. (41, 23, 18)

**Q.42** Six students Meera, Jigyasa, Tarun, Naina, Shambhavi and Avni are sitting around a circular table facing the centre (not necessarily in the same order). Shambhavi is an immediate neighbour of both Jigyasa and Avni. Tarun is sitting third to the left of Jigyasa. Meera is sitting second to the right of Avni.
Who is sitting second to the left of Jigyasa?

**Ans**
✗ 1. Tarun

✗ 2. Avni

✗ 3. Naina

✔ 4. Meera

**Q.43** In a certain code language, 'Live long' is coded as 'mu ae', 'Road is long' is coded as 'ae si du' and 'Game is live' is coded as 'si mu zt'. What is the code for the word 'Game'?

**Ans**
✗ 1. mu

✔ 2. zt

✗ 3. ae

✗ 4. si

**Q.44** A paper is folded and cut as shown. How will it appear when unfolded?



**Ans**

✗ 1.



✔ 2.



✗ 3.



✗ 4.
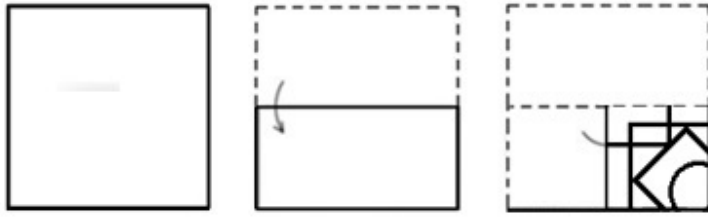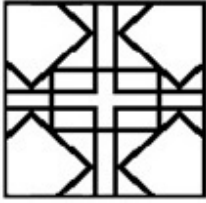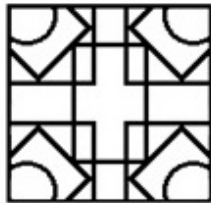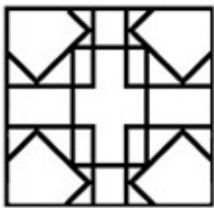
**Q.45** Select the option in which the given figure is embedded (rotation is NOT allowed).



**Ans**

✗ 1. 

✗ 2. 

✗ 3. 

✔ 4. 
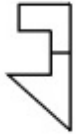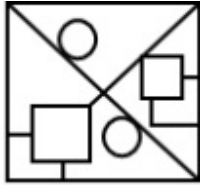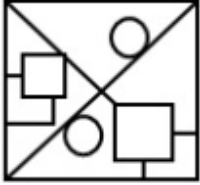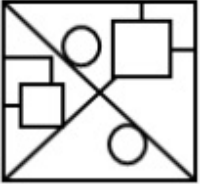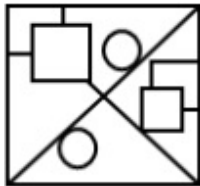
**Q.46** Select the figure that will come next in the following figure series.
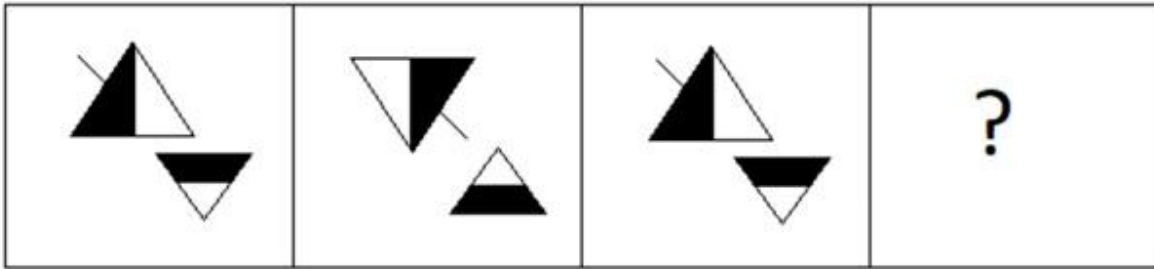


**Ans**

✗ 1.
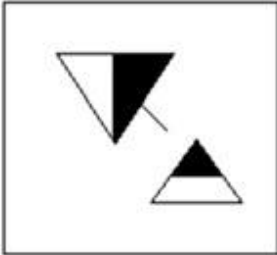

✓ 2.
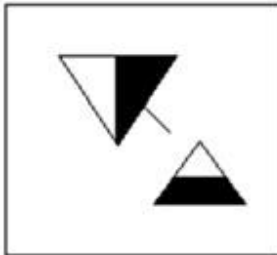

✗ 3.
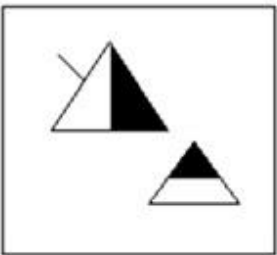

✗ 4.


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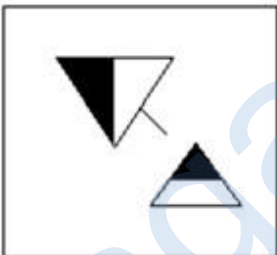
**Q.47** Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)
Pressure : Barometer :: Electricity : ?

**Ans**  ✗ 1. Cyclotron

✗ 2. Bolometer

✓ 3. Multimeter

✗ 4. Audiometer

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**Q.48** In a certain code language, 'PIN' is coded as 9 and 'CHARGER' is coded as 49. How will 'CABLE' be coded in the same language?

**Ans**  ✗ 1. 27

✗ 2. 18

✓ 3. 25

✗ 4. 36

**Q.49** Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term.

**25 : 18 :: 37 : ? :: 49 : 36**

**Ans**  ✗ 1. 29

✓ 2. 27

✗ 3. 30

✗ 4. 32

**Q.50** Select the option figure in which the given figure is embedded as its part (rotation is NOT allowed).

**Ans**



✓ 1.

✗ 2.

✗ 3.
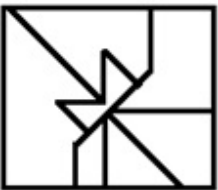
✗ 4.

**Q.1** Assessment of the country's GDP growth, external balance and fiscal balance are presented in which part of the budget document?

**Ans**  ✓ 1. Macroeconomic Framework Statement

✗ 2. Fiscal Policy Strategy Statement

✗ 3. Appropriation bill

✗ 4. Medium-term Fiscal Policy Statement

**Q.2** From which five-year plan did India start its journey of industrialisation?

**Ans**  ✓ 1. Second Five-year Plan

✗ 2. Fourth Five-year Plan

✗ 3. Third Five-year Plan

✗ 4. Fifth Five-year Plan

**Q.3** Which of the following books is an autobiography of the Indian politician LK Advani?

**Ans** ✗ 1. In Pursuit of Justice: An Autobiography

✗ 2. Wings of Fire: An Autobiography

✗ 3. My Times: An Autobiography

✓ 4. My Country My Life

**Q.4** With which of the following dance forms is Thumri music associated?

**Ans** ✓ 1. Kathak

✗ 2. Kathakali

✗ 3. Bharatanatyam

✗ 4. Sattriya

**Q.5** In 1928, which equation was derived and combines quantum theory and special relativity to describe the behaviour of an electron moving at a relativistic speed?

**Ans** ✗ 1. Lorentz equation

✗ 2. Bernoulli's equation

✗ 3. Helmholtz equation

✓ 4. Dirac equation

**Q.6** Which of the following scientists provided the Law of Octaves?

**Ans** ✗ 1. Michael Faraday

✓ 2. John Newlands

✗ 3. Marie Curie

✗ 4. Galileo Galilei

**Q.7** What is the name of the 1,3-isomer (or meta-isomer) of benzenediol with the chemical formula $C_6H_4(OH)_2$?

**Ans** ✗ 1. Glycerol

✓ 2. Resorcinol

✗ 3. Catechol

✗ 4. m-Cresol

**Q.8** Which Article of the Indian Constitution mentions that all the authorities— civil and judicial— in the territory of India shall act in aid of the Supreme Court?

**Ans** ✗ 1. Article 143

✗ 2. Article 141

✓ 3. Article 144

✗ 4. Article 142

**Q.9** What is the bicameral legislature of the Indian Constitution?

**Ans** ✗ 1. It is legislative body with four houses.

✓ 2. It is legislative body with two houses.

✗ 3. It is legislative body with one house.

✗ 4. It is legislative body with three houses.

**Q.10** The masculine aspect of the Manipuri classical dance is known as:

**Ans** ✅ 1. Choloms

❌ 2. Pareng

❌ 3. Maiba

❌ 4. Ras

**Q.11** What do you call a Glycocalyx that is a loose sheath type?

**Ans** ✅ 1. Slime layer

❌ 2. Tubules

❌ 3. Capsule

❌ 4. Mesosomes

**Q.12** Shifting agriculture is known as _____ in the Western Ghats.

**Ans** ✅ 1. kumari

❌ 2. dahiya

❌ 3. waltre

❌ 4. koman

**Q.13** Who among the following Mauryan king fasted to death and died at Shravanabelagola?

**Ans** ❌ 1. Bindusara

❌ 2. Dasharatha

❌ 3. Ashoka

✅ 4. Chandragupta Maurya

**Q.14** The Rajpath was decided to be a permanent venue for the Republic Day parade from which of the following year onwards?

**Ans** ✅ 1. 1955

❌ 2. 1959

❌ 3. 1958

❌ 4. 1951

**Q.15** In which of the following states are Aus, Boro and Aman paddy crops grown in a year?

**Ans** ✅ 1. Odisha

❌ 2. Uttarakhand

❌ 3. Haryana

❌ 4. Punjab

**Q.16** Which of the following statements about green revolution is/are correct?
I. Green revolution began in the 1960s.
II. HYV of a seed made green revolution a success.
III. Extensive use of cattle was also one constituent of green revolution.

**Ans** ❌ 1. Only II and III

❌ 2. Only I

✅ 3. Only I and II

❌ 4. Only II

**Q.17** The term 'Dribble' is generally associated with_____.

Ans   ✗ 1. cricket

    ✗ 2. baseball

    ✔ 3. basketball

    ✗ 4. tennis

**Q.18** Lavani is a traditional dance of which of the following states?

Ans   ✔ 1. Maharashtra

    ✗ 2. Madhya Pradesh

    ✗ 3. Himachal Pradesh

    ✗ 4. Uttar Pradesh

**Q.19** Who among the following classical poets of the Sultanate period in India popularised Qawwali, a form of music which derived its name from the Arabic word 'qaul', meaning 'to speak'?

Ans   ✗ 1. Jalal al-Din Muhammad Rumi

    ✔ 2. Amir Khusrau

    ✗ 3. Nizam al-Din Awliya

    ✗ 4. Shams al-Din Muhammad Hafiz

**Q.20** Which of the following rights forbids employment of children below the age of 14 years in dangerous jobs?

Ans   ✗ 1. Right to Constitutional Remedies

    ✔ 2. Right against Exploitation

    ✗ 3. Right to Freedom

    ✗ 4. Right to Equality

**Q.21** Select the INCORRECT pair of a famous minaret and its construction year in India.

Ans   ✗ 1. Shaheed Minar–1828 CE

    ✔ 2. Char Minar–1664 CE

    ✗ 3. Chand Minar–1435 CE

    ✗ 4. Jhulta Minar–1452 CE

**Q.22** Who among the following Bahmani sultan was noted for cruelty and hence got the title as 'Zalim'?

Ans   ✗ 1. Mujahid Shah

    ✗ 2. Firuz Shah

    ✗ 3. Ahmad Shah

    ✔ 4. Humayun

**Q.23** The measure of the force that can cause an object to rotate about an axis is called:

Ans   ✗ 1. power

    ✗ 2. moment of inertia

    ✗ 3. centripetal force

    ✔ 4. torque

**Q.24** Living organisms have been on Earth for how much percent of Earth's history?

**Ans**
- ✗ 1. 60%
- ✗ 2. 40%
- ✓ 3. 80%
- ✗ 4. 20%

**Q.25** According to the Census of India 2011, which of the following states has the highest Hindu population percentage of total population?

**Ans**
- ✗ 1. Uttar Pradesh
- ✗ 2. Haryana
- ✗ 3. Madhya Pradesh
- ✓ 4. Himachal Pradesh

**Q.26** In Ball Badminton, players change the ends in each game when a side first scores all of the following, EXCEPT:

**Ans**
- ✗ 1. 18
- ✓ 2. 11
- ✗ 3. 27
- ✗ 4. 9

**Q.27** Which disease is caused by NOT having enough vitamin C in the diet for at least 3 months leading to weakness, anaemia, gum disease and skin problems?

**Ans**
- ✗ 1. Rickets
- ✗ 2. Pellagra
- ✗ 3. Beriberi
- ✓ 4. Scurvy

**Q.28** Who is the author of the book 'The Soul of a Butterfly: Reflections on Life's Journey'?

**Ans**
- ✓ 1. Muhammad Ali
- ✗ 2. Jake LaMotta
- ✗ 3. Roberto Duran
- ✗ 4. Eugene J Bullard

**Q.29** Who takes the salute during the Republic Day parade at New Delhi?

**Ans**
- ✗ 1. Chief Justice
- ✗ 2. Governor
- ✓ 3. President
- ✗ 4. Prime Minister

**Q.30** Which Article of the Indian Constitution refers to the Rights of Ministers with respect to the State Legislature?

**Ans**
- ✗ 1. Article 176
- ✗ 2. Article 178
- ✓ 3. Article 177
- ✗ 4. Article 175

**Q.31** Which of the following is NOT the manifestation of Iron-deficiency anaemia (IDA)?

**Ans**
✗ 1. Paleness of conjunctiva of eyes

✓ 2. Blindness

✗ 3. Soft palate

✗ 4. General pallor

**Q.32** In 1932, who discovered the positron, a particle described as 'carrying a positive charge but having a mass of the same order of magnitude as that normally possessed by a free negative electron'?

**Ans**
✓ 1. Carl Anderson

✗ 2. Paul Dirac

✗ 3. Ernest Rutherford

✗ 4. Niels Bohr

**Q.33** What is the standard weight of a hockey ball?

**Ans**
✗ 1. 161 gm - 156 gm

✓ 2. 163 gm - 156 gm

✗ 3. 160 gm - 156 gm

✗ 4. 162 gm - 156 gm

**Q.34** The seven years of war in the 18th century was fought between Britain and _____.

**Ans**
✗ 1. Germany

✗ 2. Portugal

✓ 3. France

✗ 4. Spain

**Q.35** The Arms Act was passed in _____ that prevented Indians from keeping arms without an appropriate license.

**Ans**
✓ 1. 1878

✗ 2. 1897

✗ 3. 1912

✗ 4. 1909

**Q.36** Ghanakanta Bora Borbayan has been conferred the Padma Shri award for his contribution to which of the following fields?

**Ans**
✗ 1. Chhau

✓ 2. Sattriya

✗ 3. Bhortal

✗ 4. Bagurumba

**Q.37** Dihang and Lohit are rivers in which of the following regions?

**Ans**
✗ 1. Jammu and Kashmir

✗ 2. Sikkim and Manipur

✓ 3. Arunachal Pradesh and Assam

✗ 4. Punjab and Himachal

**Q.38** Choose the correct statement(s) related to 'continentality'.
a. The sea exerts a moderating influence on climate.
b. As the distance from the sea increases, the people experience extreme weather conditions.
c. As one goes from the surface of the earth to higher altitudes, the atmosphere becomes less dense and temperature decreases.

**Ans**
✗ 1. b and c

✗ 2. Only c

✗ 3. a and c

✓ 4. a and b

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**Q.39** Which Articles of the Indian Constitution describe Fundamental Rights?

**Ans**
✓ 1. Articles 12 to 35

✗ 2. Articles 36 to 51

✗ 3. Articles 52 to 62

✗ 4. Articles 5 to 11

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**Q.40** Which of the following Articles of the Constitution of India lays down the establishment of Public Service Commissions for the Union and for the States?

**Ans**
✗ 1. Article 318

✗ 2. Article 316

✓ 3. Article 315

✗ 4. Article 317

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**Q.41** At the time of launch of the Smart Cities Mission, how many cities were proposed to be covered under this scheme?

**Ans**
✓ 1. 100

✗ 2. 50

✗ 3. 25

✗ 4. 75

---

**Q.42** Which of the following organisms belongs to phylum Apicomplexa?

**Ans**
✗ 1. Physalia

✓ 2. Plasmodium

✗ 3. Hydra

✗ 4. Sponge

---

**Q.43** Neeruswamy Pillai and Rajaratanam Pillai are exponents of which musical instrument?

**Ans**
✗ 1. Mridangam

✗ 2. Mandolin

✓ 3. Nadaswaran

✗ 4. Sarangi

---

**Q.44** Who was/were the founder(s) of the Theosophical Society?

**Ans**
✗ 1. Annie Besant

✗ 2. Madam Bhikaji Cama

✗ 3. Charles W Leadbeater and Emily Lutyens

✓ 4. H P Blavatsky and Colonel Olcott

**Q.45** Which of the following is an indirect tax?

**Ans**
- ✗ 1. Death duty
- ✗ 2. Interest tax
- ✗ 3. Capital gains tax
- ✓ 4. Goods and services tax

**Q.46** _____ river has the least storage capacity of usable water.

**Ans**
- ✗ 1. Ganges
- ✓ 2. Brahmaputra
- ✗ 3. Krishna
- ✗ 4. Godavari

**Q.47** The ball colour in the sport of Ball Badminton should be:

**Ans**
- ✗ 1. red
- ✗ 2. pink
- ✓ 3. yellow
- ✗ 4. green

**Q.48** According to the 2011 Census, which state recorded the lowest literacy rate?

**Ans**
- ✗ 1. Jharkhand
- ✗ 2. Arunachal Pradesh
- ✓ 3. Bihar
- ✗ 4. Andhra Pradesh

**Q.49** Which of the following Sultans of Delhi was appointed as Amir-i-Tuzuk (Master of Ceremonies) before becoming the Sultan?

**Ans**
- ✓ 1. Alauddin Khalji
- ✗ 2. Balban
- ✗ 3. Iltutmish
- ✗ 4. Muhammad Bin Tughlaq

**Q.50** According to the Koppen classification, Which regions experience cold humid winter with short summers?

**Ans**
- ✗ 1. South of Goa
- ✗ 2. Western Rajasthan
- ✓ 3. Arunachal Pradesh
- ✗ 4. Northern Madhya Pradesh

**Q.1** If 30% of Ravi's income is equal to 40% of Suresh's income, then 50% of Ravi's income is equal to what percentage of Suresh's income?

**Ans**
- ✓ 1. $66\frac{2}{3}\%$
- ✗ 2. $33\frac{2}{3}\%$
- ✗ 3. $66\frac{1}{3}\%$
- ✗ 4. $33\frac{1}{3}\%$

**Q.2** If Arun can complete $\frac{2}{3}$ rd of a work in 12 days, then in how many days can he complete $\frac{1}{6}$ th of the same work?

**Ans**
✗ 1. 4

✗ 2. 5

✗ 3. 2

✓ 4. 3

**Q.3** The following table gives the number of different types of batteries sold by a company over the years (numbers in hundreds).

| Year \ Type of battery | 7AH | 32AH | 35AH | 55AH |
|---|---|---|---|---|
| 2018 | 20 | 30 | 40 | 50 |
| 2019 | 40 | 35 | 45 | 45 |
| 2020 | 50 | 40 | 40 | 40 |
| 2021 | 40 | 50 | 50 | 45 |
| 2022 | 45 | 45 | 35 | 55 |

What is the difference in the number of 7AH batteries sold in 2021 and 2022?

**Ans**
✗ 1. 300

✗ 2. 200

✓ 3. 500

✗ 4. 700

**Q.4** Find the HCF of 125, 250 and 750.

**Ans**
✗ 1. 25

✗ 2. 50

✗ 3. 75

✓ 4. 125

**Q.5** The chord of a circle is equal to its radius. Find the difference between the angle subtended by this chord at the minor arc and major arc of the circle.

**Ans**
✗ 1. 30°

✓ 2. 120°

✗ 3. 150°

✗ 4. 60°

**Q.6** The LCM of two numbers is five times their HCF. If the product of the two numbers is 20480,then find their HCF and LCM, respectively.

**Ans**
✓ 1. 64 and 320

✗ 2. 56 and 280

✗ 3. 48 and 240

✗ 4. 46 and 230

**Q.7** A shopkeeper sells sugar at ₹40 per kg, which he purchased at ₹36 per kg. His weighing machine is faulty and it weighs only 800 gm while selling. His percentage profit (correct to 2 decimal places) is:

**Ans**

✗ 1. 40%

✗ 2. 37.58%

✔ 3. 38.89%

✗ 4. 39.28%

**Q.8** Simplify the given expression.

b + 2a - [(3b + a) - (2a + b) + 2a] - a

**Ans**  ✗ 1. − a

✔ 2. - b

✗ 3. a

✗ 4. b

**Q.9** If the slant height of a cone is 29 cm and its height is 20 cm, find the ratio between the magnitudes of total surface area and the volume.

**Ans**

✗ 1. 3 : 7

✗ 2. 3 : 14

✔ 3. 5 : 14

✗ 4. 7 : 15

**Q.10** The radius of a metallic spherical ball is 3 cm. If the metallic ball is melted and recast into x number of hemispheres of radius equal to half the radius of the metallic spherical ball, then find the value of x.

**Ans**

✗ 1. 14

✔ 2. 16

✗ 3. 13

✗ 4. 15

**Q.11** Study the given pie-chart and answer the question that follows.

The pie-chart shows the expenditure of a family on different items and their savings throughout the year 2021.
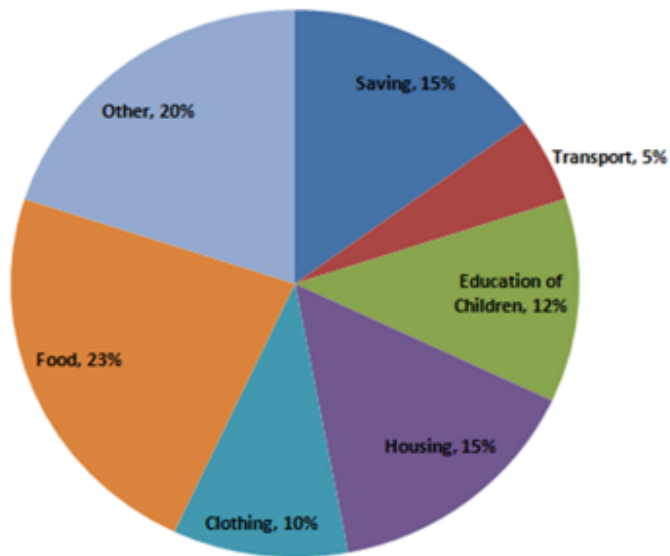


If the total income for the year was ₹1,00,000, then the difference in the expenses (in ₹) between housing and transport was:

**Ans**
  ✗ 1. 9,500

  ✗ 2. 10,500

  ✓ 3. 10,000

  ✗ 4. 9,000

---

**Q.12** In a 1200 m race, Rakesh reaches the final point in 36 seconds and Rajesh reaches in 40 sec. By how much distance does Rakesh beat Rajesh?

**Ans**
  ✗ 1. 150 m

  ✗ 2. 140 m

  ✗ 3. 130 m

  ✓ 4. 120 m

**Q.13** Study the given bar graph carefully and answer the question that follows. Increment of four employees (in ₹) in the months of May, June and July.
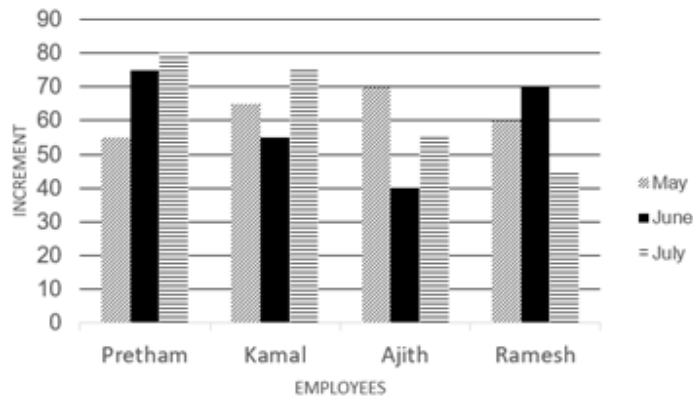


What is Kamal's overall average increment in three months?

Ans
✗ 1. ₹60

✗ 2. ₹75

✗ 3. ₹70

✔ 4. ₹65

---

**Q.14** What is the average of the first six prime numbers?

Ans
✗ 1. $6\frac{2}{3}$

✔ 2. $6\frac{5}{6}$

✗ 3. $6\frac{1}{6}$

✗ 4. $6\frac{1}{3}$

---

**Q.15** ΔPQR is right angled at Q such that PQ=(x-y),QR=x and PR=(x+y). S is a point on QR such that QS=PQ. The ratio QS:SR for any values of x and y is:

Ans
✗ 1. 1 : 3

✗ 2. 1 : 2

✗ 3. 2 : 1

✔ 4. 3 : 1

---

**Q.16** The following table represents the number of scooters sold by 5 stores in 4 different months in the year 2022.

| Stores / Months | A | B | C | D | E |
|---|---|---|---|---|---|
| January | 212 | 168 | 173 | 182 | 190 |
| February | 312 | 250 | 212 | 175 | 182 |
| March | 280 | 275 | 265 | 255 | 245 |
| April | 270 | 280 | 290 | 305 | 275 |

Find the ratio between the total number of scooters sold by stores A and B together in January and the total number of scooters sold by stores D and E together in March?

Ans
✗ 1. 18 : 23

✔ 2. 19 : 25

✗ 3. 17 : 25

✗ 4. 20 : 23

**Q.17** The length of the common chord of two intersecting circles is 24 cm. If the diameter of the circles are 30 cm and 26 cm, then the distance between the centres (in cm) is:

**Ans**
✗ 1. 18 cm

✗ 2. 16 cm

✗ 3. 12 cm

✓ 4. 14 cm

**Q.18** Ayush spends 25% of an amount of money on an insurance policy, 26% on food, 23% on children's education and 19% on recreation. He deposits the remaining amount of ₹26,600 in the bank. What is the total amount (in ₹) that he spends on food and recreation together?

**Ans**
✗ 1. 1,95,000

✗ 2. 1,83,000

✗ 3. 1,62,000

✓ 4. 1,71,000

**Q.19** The given graph shows the income and expenditure of a family.
Study the graph and answer the question that follows.
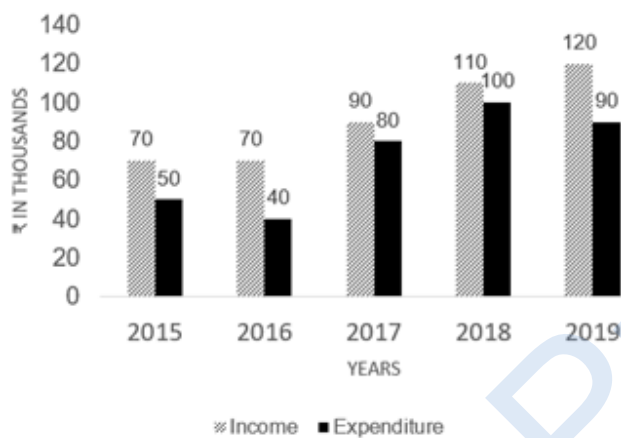


The expenditure of the family increased by _____ from 2017 to 2018.

**Ans**
✓ 1. 25%

✗ 2. 22%

✗ 3. 20%

✗ 4. 11%

**Q.20** A and B are equally efficient, and each can individually complete a piece of work in 36 days, if none takes any holiday. A and B started working together on this piece of work, but A took a day off after every five days of work, while B took a day off after every seven days of work. If the duo had started work on 1 July 2021, on which date was the work completed?

**Ans**
✗ 1. 19 July 2021

✗ 2. 20 July 2021

✗ 3. 22 July 2021

✓ 4. 21 July 2021

**Q.21** If the sum of two numbers is 60 and their HCF and LCM are 5 and 60, respectively, then the sum of the reciprocals of the numbers will be:

**Ans**

✗ 1. $\dfrac{1}{4}$

✓ 2. $\dfrac{1}{5}$

✗ 3. $\dfrac{1}{11}$

✗ 4. $\dfrac{1}{6}$

---

**Q.22** A fast local of Mumbai takes 45 minutes less than a slow local for a journey of 150 km. If the speed of the fast local is 10 km/h more than that of the slow local, find the speed (in km/h) of the slow local train.

**Ans** ✗ 1. 30

✓ 2. 40

✗ 3. 45

✗ 4. 35

---

**Q.23** Study the given table and answer the question that follows.

The table shows the number of employees in three organisations during three years.

| Organization \ Year | 2018 | 2019 | 2020 |
|---|---|---|---|
| P | 75 | 69 | 85 |
| Q | 96 | 81 | 74 |
| R | 85 | 63 | 90 |

What is the respective ratio between total number of employees in organisations P and R together in 2019 and total number of employees in organisations Q and R together in 2020?

**Ans** ✗ 1. 41 : 31

✗ 2. 33 : 23

✗ 3. 23 : 41

✓ 4. 33 : 41

---

**Q.24** If $\sin\theta + \cos\theta = \sqrt{2}\,\cos\theta$, then find $\dfrac{\sin\theta - \cos\theta}{\sin\theta}$ :

**Ans**

✓ 1. $-\sqrt{2}$

✗ 2. $-1$

✗ 3. $1$

✗ 4. $\sqrt{2}$

**Q.25** In a school of 720 students, the ratio of boys to girls is 3 : 5. Find how many new boys may be allowed to the school if 18 new girls are admitted, so that the ratio of boys to girls changes to 2 : 3.

**Ans** ✔ 1. 42

✘ 2. 50

✘ 3. 44

✘ 4. 38

---

**Q.26** A, B and C can do a piece of work in 11 days, 20 days and 55 days respectively. How soon can the work be done if A works with B on first day, A works with C on second day and so on?

**Ans** ✘ 1. 9 days

✘ 2. $9\frac{1}{2}$ days

✘ 3. $8\frac{1}{2}$ days

✔ 4. 8 days

---

**Q.27** Which of the following is the greatest four-digit number that is divisible by 15, 25, 40, and 75?

**Ans** ✘ 1. 9000

✔ 2. 9600

✘ 3. 9500

✘ 4. 9200

---

**Q.28** If $\dfrac{2\sin A - \cos A}{\sin A + \cos A} = 1$, then find the value of $\cot A$.

**Ans** ✘ 1. 1

✘ 2. 2

✔ 3. $\dfrac{1}{2}$

✘ 4. $\dfrac{1}{3}$

---

**Q.29** Rakesh runs a coaching institute having 50 faculty members. The average monthly salary of 35 faculty members is ₹37,500. What will be the average monthly salary (in ₹) of the other 15 faculty members, if the average monthly salary of all the 50 faculty members is found to be ₹30,000?

**Ans** ✘ 1. 12,000

✘ 2. 13,000

✔ 3. 12,500

✘ 4. 13,500

---

**Q.30** The HCF and LCM of two numbers are 9 and 126, respectively. Find the larger number, if the ratio between the numbers is 2 : 7.

**Ans** ✔ 1. 63

✘ 2. 77

✘ 3. 21

✘ 4. 42

**Q.31** In a store, Arun has two options to buy a mobile phone, either he can pay the full amount of Rs.2,500 or he may buy at an instalment scheme, i.e. Rs.520 in down payment and four equal instalments, rate of interest being charged at 25% p.a. simple interest. Arun buys a mobile phone on the instalment scheme. What is the monthly instalment for Arun?

**Ans** ✗ 1. Rs.510

✗ 2. Rs.530

✗ 3. Rs.550

✓ 4. Rs.520

**Q.32** Simplify the given expression.

(x - 2y)(y - 3x) + (x + y)(x - y) + (x - 3y)(2x + y)

**Ans** ✗ 1. 2x(x - 3y)

✗ 2. 2y(x + 3y)

✗ 3. 2x(x + 3y)

✓ 4. 2y(x - 3y)

**Q.33** The value of $2\tan^2 45° + \cos^2 30° - \sin^2 60°$ is:

**Ans** ✗ 1. −2

✓ 2. 2

✗ 3. 1

✗ 4. −1

**Q.34** Ankita sold three toys. The first toy was sold for ₹1,500 at a profit of 25%; the second toy was sold for ₹2,800 at a loss of 50% and the third toy was sold for ₹3,500 at a profit of 25%. Find her total profit or loss percentage.

**Ans** ✗ 1. 15.25% profit

✓ 2. 18.75% loss

✗ 3. 18.75% profit

✗ 4. 15.25% loss

**Q.35** Study the given table and answer the question that follows.
The table shows the number of students in various courses in various cities A, B, C, D and E in India during the academic year 2022-2023.

| City | MBA | Science | Engineering | Medicine | MCA | Total |
|------|-----|---------|-------------|----------|-----|-------|
| A | 1200 | 2560 | 4520 | 1100 | 960 | 10340 |
| B | 1350 | 2650 | 5100 | 1050 | 850 | 11000 |
| C | 1250 | 2640 | 4580 | 1120 | 750 | 10340 |
| D | 1960 | 1250 | 3500 | 1850 | 1600 | 10160 |
| E | 1200 | 2100 | 3500 | 960 | 540 | 8300 |

During the academic year 2022-2023, which city had the largest number of students?

**Ans** ✓ 1. B

✗ 2. D

✗ 3. A

✗ 4. C

**Q.36** A hollow cylindrical tube made of plastic is 3 cm thick. If the external diameter is 20 cm and length of the tube is 49 cm, find the volume of the plastic.

**Ans** ✗ 1. 7644 cm³

✗ 2. 7238 cm³

✓ 3. 7854 cm³

✗ 4. 7546 cm³

**Q.37** The value of a washing machine depreciated from ₹40,960 to ₹21,970 in 3 years. Find the yearly rate of depreciation.

**Ans**  ✓ 1. 18.75%

✗ 2. 16.25%

✗ 3. 20%

✗ 4. 25%

**Q.38** Some ice pieces, spherical in shape, of diameter 6 cm are dropped in a cylindrical container containing some juice and are fully submerged. If the diameter of the container is 18 cm and level of juice rises by 40 cm, then how many ice pieces are dropped in the container?

**Ans**  ✓ 1. 90

✗ 2. 80

✗ 3. 85

✗ 4. 95

**Q.39** Find the fourth proportional of 22, 66 and 11.

**Ans**  ✓ 1. 33

✗ 2. 39

✗ 3. 17

✗ 4. 23

**Q.40** The LCM of 8, 12 and 18 is:

**Ans**  ✗ 1. 24

✓ 2. 72

✗ 3. 80

✗ 4. 36

**Q.41** Study the given table and answer the question that follows.

| Number of children | Number of families |
|---|---|
| 0 | 4 |
| 1 | 22 |
| 2 | 15 |
| 3 | 6 |
| 4 | 2 |

The average number of children per family is:

**Ans**  ✗ 1. 1.72

✗ 2. 1.47

✗ 3. 1.23

✓ 4. 1.59

**Q.42** The least number of five digits which is exactly divisible by 9, 12, 15, 25 and 27 is:

**Ans**  ✗ 1. 10250

✓ 2. 10800

✗ 3. 10600

✗ 4. 10700

**Q.43** An article is sold at a discount of 25% and an additional discount of 28% is allowed on cash payment. If Ramendra purchased the article by paying ₹10,800 in cash, then what was the marked price of the article?

**Ans**
  ✗ 1. ₹20,800

  ✓ 2. ₹20,000

  ✗ 3. ₹19,800

  ✗ 4. ₹18,000

**Q.44** A man covers a certain distance by bike. If he covers 25% of the distance at the speed of 25 km/h, 50% of the distance at the speed of 50 km/h and the remaining distance at the speed of 12.5 km/h, find his average speed over the whole journey.

**Ans**
  ✓ 1. 25 km/h

  ✗ 2. 30 km/h

  ✗ 3. 35 km/h

  ✗ 4. 20 km/h

**Q.45** The ratio of monthly income and expenditure of a man is 7 : 3. If his expenditure is ₹5,400, find his monthly income.

**Ans**
  ✗ 1. ₹11,500

  ✗ 2. ₹13,300

  ✓ 3. ₹12,600

  ✗ 4. ₹10,400

**Q.46** The number of balls, each one is 4 cm in the diameter that can be made from a solid metallic sphere of diameter 32 cm is:

**Ans**
  ✓ 1. 512

  ✗ 2. 256

  ✗ 3. 1024

  ✗ 4. 64

**Q.47** Study the given pie-chart carefully and answer the question that follows.
Degree wise Break-up of Expenditure of a Family in a Month

Total Amount Spent In a
Month = ₹56800.



Others 35.8°
Education of children 95°
Savings 65.3°
Transport 84.7°
Housing 79.2°
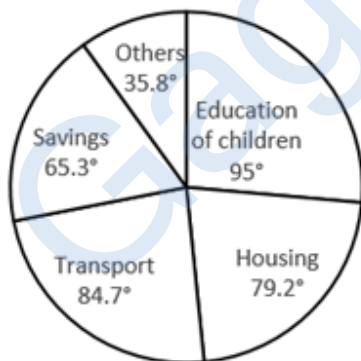
What is the amount spent by the family on housing?

**Ans**
  ✗ 1. ₹11,814

  ✓ 2. ₹12,496

  ✗ 3. ₹10,615

  ✗ 4. ₹6,248

**Q.48** In ΔABC with sides 8 cm, 9 cm and 12 cm, the angle bisector of the largest angle divides the opposite sides into two segments. What is the length of the shorter segment?

**Ans**

✔ 1. $5\frac{11}{17}$ cm

✘ 2. $6\frac{13}{17}$ cm

✘ 3. $4\frac{11}{17}$ cm

✘ 4. $3\frac{9}{17}$ cm

---

**Q.49** A shopkeeper marked the price as ₹15,000 on an article, and a successive discount of 5%, 10% and 20% was allowed on it. What is the selling price?

**Ans**

✘ 1. ₹11,520

✘ 2. ₹13,520

✘ 3. ₹9,850

✔ 4. ₹10,260

---

**Q.50** If $\cot^2\theta = 1 - e^2$, then the value of $\operatorname{cosec}\theta + \cot^3\theta\sec\theta$ is:

**Ans**

✔ 1. $(2 - e^2)^{\frac{3}{2}}$

✘ 2. $(1 - e^2)$

✘ 3. $(1 - e^2)^{\frac{3}{2}}$

✘ 4. $(2 - e^2)^{\frac{1}{2}}$

---

**Q.1** Select the most appropriate option that can substitute the underlined word which has been incorrectly spelt.
They have begun to study in <u>sepparate</u> rooms.

**Ans**

✔ 1. separate

✘ 2. seprate

✘ 3. saparate

✘ 4. saperate

---

**Q.2** Select the most appropriate ANTONYM of the given word.
**Magnificent**

**Ans**

✘ 1. Quiet

✔ 2. Modest

✘ 3. Impressive

✘ 4. Peaceful

---

**Q.3** Replace the underlined segment with the most appropriate idiom/phrase from the following options.

This is the <u>critical point of the issue</u>. One should always be focused on it.

**Ans**

✘ 1. A black sheep

✔ 2. The crux of the matter

✘ 3. Chip off the old block

✘ 4. Don't cry over spilt milk

**Q.4** Parts of the following sentence have been underlined and given as options. Select the option that contains an error.

<u>Have</u> they <u>been</u> <u>work</u> in that particular shop <u>for</u> several years?

**Ans** ✅ 1. work

❌ 2. been

❌ 3. Have

❌ 4. for

---

**Q.5** Select the most appropriate phrasal verb to fill in the blank.
It took seven years for Harish to _____ his migraine.

**Ans** ✅ 1. shake off

❌ 2. shake out

❌ 3. shake up

❌ 4. shake down

---

**Q.6** Select the most appropriate idiom for the underlined word segment.
He seems <u>to be undecided</u> about whether to move to another city for better prospects.

**Ans** ❌ 1. Bouncing off the walls

❌ 2. Counting down the days

❌ 3. Running out of steam

✅ 4. Sitting on the fence

---

**Q.7** The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

Roger went / to an United Kingdom / with his wife / to celebrate Christmas.

**Ans** ❌ 1. Roger went

❌ 2. to celebrate Christmas

✅ 3. to an United Kingdom

❌ 4. with his wife

---

**Q.8** Select the most appropriate meaning of the given idiom.

Bite the bullet

**Ans** ✅ 1. Decide to do the inevitable which you were avoiding

❌ 2. To bite something very hard

❌ 3. Decide to take the easier way out

❌ 4. Decide to do what is good

---

**Q.9** Select the most appropriate meaning of the given idiom.

Spill the beans

**Ans** ❌ 1. To be very expensive

❌ 2. Fail to make an impact

✅ 3. Give away a secret

❌ 4. Sound familiar

---

**Q.10** Select the most appropriate ANTONYM of the given word.
Together

**Ans** ❌ 1. United

✅ 2. Apart

❌ 3. Freight

❌ 4. Engulf

**Q.11** Select the most appropriate meaning of the highlighted idiom in the given sentence.

She said she liked my hair, but it turned out to be a left handed compliment.

**Ans** ✗ 1. A joke

✗ 2. A flattery

✗ 3. A praise

✓ 4. An insult

**Q.12** Select the word segment that substitutes (replaces) the bracketed word segment correctly and completes the sentence meaningfully:
Unless you (do will not prepare) well you will not perform well.

**Ans** ✓ 1. prepare

✗ 2. will prepare

✗ 3. would not prepare

✗ 4. will do not prepare

**Q.13** Select the most appropriate ANTONYM of the given word.
Decline

**Ans** ✗ 1. Traverse

✗ 2. Escape

✓ 3. Ascend

✗ 4. Demonstrate

**Q.14** Select the most appropriate ANTONYM of the given word.
Resolute

**Ans** ✗ 1. Serious

✓ 2. Wavering

✗ 3. Brave

✗ 4. Steadfast

**Q.15** Select the most appropriate option that can substitute the underlined segment in the given sentence.
The team leader tried to remain positive or optimistic in the situation, even though they were facing tough competition and limited resources.

**Ans** ✗ 1. to put a strong desire in front of

✗ 2. to put on a strong exterior

✓ 3. to put a brave face on

✗ 4. to put a strong hand forward

**Q.16** Select the option that can be used as a one-word substitute for the given group of words.

Requiring exceptional skill or caution in performance or handling

**Ans** ✗ 1. Blunt

✗ 2. Abstract

✗ 3. Sustainable

✓ 4. Tricky

**Q.17** Select the most appropriate option that can substitute the underlined segment in the given sentence.

The concert was filled with <u>rapt</u> teenage listeners.

Ans ✗ 1. really fashionable

✗ 2. boldly dressed

✓ 3. fully attentive

✗ 4. truly energetic

---

**Q.18** Select the sentence that has a spelling error.

A- One has to understand the rudimentery fact that intelligence and intellect are at two opposite poles.
B- An intellectual person may have all the knowledge of the world but won't know how to give it a shape.
C- Knowledge will plague the individual if he does not have the intelligence to express it.
D- Without basic intelligence, an individual is trapped within himself manifesting conflicts and ignorance in the external world.

Ans ✓ 1. One has to understand the rudimentery fact that intelligence and intellect are at two opposite poles.

✗ 2. An intellectual person may have all the knowledge of the world but won't know how to give it a shape.

✗ 3. Knowledge will plague the individual if he does not have the intelligence to express it.

✗ 4. Without basic intelligence, an individual is trapped within himself, manifesting conflicts and ignorance in the external world.

---

**Q.19** Choose the most appropriate meaning of the underlined phrase.
He was <u>carried off his feet</u> when he was declared to have won the prize.

Ans ✗ 1. Was dizzy

✓ 2. Was wild with excitement

✗ 3. Danced on his toes

✗ 4. Became delirious

---

**Q.20** Select the most appropriate ANTONYM for the highlighted word.
She has a penchant for art and craft.

Ans ✓ 1. hatred

✗ 2. fear

✗ 3. anxiety

✗ 4. joy

---

**Q.21** The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

I have a dog and a cow. / A dog is black / but the cow is / black and white.

Ans ✗ 1. but the cow is

✓ 2. A dog is black

✗ 3. black and white

✗ 4. I have a dog and a cow

---

**Q.22** Select the most appropriate meaning of the underlined idiom that can be substituted in the following sentence.

The new routine will suit you <u>to a T</u>.

Ans ✗ 1. nicely

✗ 2. a little bit

✗ 3. very poorly

✓ 4. exactly

**Q.23** Select the most appropriate option that can substitute the underlined segment in the given sentence.

Health insurance <u>are important</u> today since anyone can face a medical emergency without warning.

**Ans** ✗ 1. was important

✓ 2. is important

✗ 3. has been important

✗ 4. will be important

**Q.24** Select the most appropriate synonym of the given word.

Desolate

**Ans** ✗ 1. Fortunate

✗ 2. Hopeful

✓ 3. Depressive

✗ 4. Sturdy

**Q.25** The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.
(1) He could / (2) be pass his exams / (3) if he studied harder. / (4) No error

**Ans** ✗ 1. 3

✓ 2. 2

✗ 3. 1

✗ 4. 4

**Q.26** Some words in the following sentences have been underlined and given as options. Select the option that contains a spelling error.
Why is <u>everyone</u> so <u>dressed</u> up? What's the <u>occaseon</u>? Is it a <u>wedding</u>?

**Ans** ✗ 1. dressed

✗ 2. wedding

✗ 3. everyone

✓ 4. occaseon

**Q.27** Select the option that can be used as a one-word substitute for the given group of words.
To restrain or compel a person to do something by force.

**Ans** ✗ 1. Consensus

✓ 2. Coerce

✗ 3. Casualty

✗ 4. Convoy

**Q.28** Select the most appropriate idiom to fill in the blank.
I have all the technical and communication skills necessary to crack any interview; it will be _____ .

**Ans** ✓ 1. a piece of cake for me

✗ 2. a chip on my shoulder

✗ 3. a hard nut to crack

✗ 4. a storm in a tea cup

**Q.29** Select the correct spelling of the incorrectly spelt word.

They were more often abnoxious than not, impatient with me because my services had been essentially imposed upon them.

**Ans**
✗ 1. essentialy

✓ 2. obnoxious

✗ 3. impatint

✗ 4. servises

**Q.30** Select the most appropriate ANTONYM of the given word.
Superb

**Ans**
✗ 1. Splendid

✗ 2. Incorrigible

✓ 3. Inferior

✗ 4. Infallible

**Q.31** Select the most appropriate option that can substitute the underlined segment in the given sentence.
I like all games instead of cricket.

**Ans**
✗ 1. exclude

✓ 2. except

✗ 3. rather

✗ 4. object

**Q.32** Select the most appropriate synonym of the underlined word.
Improved rail transport is essential for business.

**Ans**
✗ 1. Recommended

✗ 2. Technical

✗ 3. Trivial

✓ 4. Crucial

**Q.33** Select the most appropriate ANTONYM of the underlined word in the given sentence.

All members of the association adhere to a strict code of practice.

**Ans**
✗ 1. comply

✓ 2. flout

✗ 3. cling

✗ 4. observe

**Q.34** Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.
It was a quite afternoon, so Dan decided to take a nap.

**Ans**
✓ 1. a quiet

✗ 2. an quite

✗ 3. No substitution required

✗ 4. an quiet

**Q.35** Select the option that can be used as a one-word substitute for the given group of words.

An act of exchanging information

Ans ✗ 1. Touch

✗ 2. Hold

✗ 3. Collaboration

✓ 4. Communication

**Q.36** Select the most appropriate meaning of the given idiom.
Spill the beans

Ans ✗ 1. To make anything visible

✓ 2. To reveal secret information

✗ 3. To talk randomly

✗ 4. To ruin someone's plan

**Q.37** Select the most appropriate option to fill in the blank.
This is not _____ exhaustive list of words.

Ans ✓ 1. an

✗ 2. No word required

✗ 3. many

✗ 4. a

**Q.38** Select the most appropriate ANTONYM of the given word.

Redemption

Ans ✓ 1. Blasphemy

✗ 2. Corrugation

✗ 3. Conjunction

✗ 4. Salvation

**Q.39** Select the option that will improve the underlined part of the given sentence.
People <u>say different things at different times</u>.

Ans ✓ 1. say diverse things at different times

✗ 2. says whimsical things at different times

✗ 3. should say fanciful things at different times

✗ 4. says delectable things at different times

**Q.40** Select the correct spelling of the incorrectly spelt word.

He had a round face made jovial by bright, almost boyish eyes and eyebrows ridiculusly small for a man his size.

Ans ✗ 1. ridicolusly

✗ 2. jouvial

✗ 3. juvial

✓ 4. ridiculously

**Comprehension:**

In the following passage some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Rabindranath Tagore founded a small school at Santiniketan in 1901 and Kala Bhavan, an art school, in 1919 which (1)_____ became a part of the Visvabharati University founded in 1921. Located in an (2)_____ village some distance from the city of Calcutta, Kala Bhavan presented an alternative methodology of art training, in which studio based practice was (3)_____ in favour of learning through observation and living as a part of nature. The natural surroundings with the (4)_____ of bare red earth dotted with trees, the colours of the changing seasons, the animals and birds (5)_____ inspiration to students.

**SubQuestion No : 41**

**Q.41** **Select the most appropriate option to fill in blank no. 1.**

**Ans** ✔ 1. later

✘ 2. slower

✘ 3. faster

✘ 4. better

**Comprehension:**

In the following passage some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Rabindranath Tagore founded a small school at Santiniketan in 1901 and Kala Bhavan, an art school, in 1919 which (1)_____ became a part of the Visvabharati University founded in 1921. Located in an (2)_____ village some distance from the city of Calcutta, Kala Bhavan presented an alternative methodology of art training, in which studio based practice was (3)_____ in favour of learning through observation and living as a part of nature. The natural surroundings with the (4)_____ of bare red earth dotted with trees, the colours of the changing seasons, the animals and birds (5)_____ inspiration to students.

**SubQuestion No : 42**

**Q.42** **Select the most appropriate option to fill in blank no. 2.**

**Ans** ✔ 1. idyllic

✘ 2. normal

✘ 3. reliable

✘ 4. magical

**Comprehension:**

In the following passage some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Rabindranath Tagore founded a small school at Santiniketan in 1901 and Kala Bhavan, an art school, in 1919 which (1)_____ became a part of the Visvabharati University founded in 1921. Located in an (2)_____ village some distance from the city of Calcutta, Kala Bhavan presented an alternative methodology of art training, in which studio based practice was (3)_____ in favour of learning through observation and living as a part of nature. The natural surroundings with the (4)_____ of bare red earth dotted with trees, the colours of the changing seasons, the animals and birds (5)_____ inspiration to students.

**SubQuestion No : 43**

**Q.43** **Select the most appropriate option to fill in blank no. 3.**

**Ans** ✘ 1. investigated

✔ 2. rejected

✘ 3. accepted

✘ 4. aspired

**Comprehension:**

In the following passage some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Rabindranath Tagore founded a small school at Santiniketan in 1901 and Kala Bhavan, an art school, in 1919 which (1)_____ became a part of the Visvabharati University founded in 1921. Located in an (2)_____ village some distance from the city of Calcutta, Kala Bhavan presented an alternative methodology of art training, in which studio based practice was (3)_____ in favour of learning through observation and living as a part of nature. The natural surroundings with the (4)_____ of bare red earth dotted with trees, the colours of the changing seasons, the animals and birds (5)_____ inspiration to students.

**SubQuestion No : 44**

Q.44 **Select the most appropriate option to fill in blank no. 4.**

Ans ✓ 1. vistas

✗ 2. murk

✗ 3. haze

✗ 4. band

---

**Comprehension:**

In the following passage some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Rabindranath Tagore founded a small school at Santiniketan in 1901 and Kala Bhavan, an art school, in 1919 which (1)_____ became a part of the Visvabharati University founded in 1921. Located in an (2)_____ village some distance from the city of Calcutta, Kala Bhavan presented an alternative methodology of art training, in which studio based practice was (3)_____ in favour of learning through observation and living as a part of nature. The natural surroundings with the (4)_____ of bare red earth dotted with trees, the colours of the changing seasons, the animals and birds (5)_____ inspiration to students.

**SubQuestion No : 45**

Q.45 **Select the most appropriate option to fill in blank no. 5.**

Ans ✗ 1. agreed

✓ 2. provided

✗ 3. groomed

✗ 4. refused

---

**Comprehension:**

Read the given passage carefully and answer the questions that follow.

Mountains occupy about a quarter of the Earth's land, harbour most of its biodiversity hotspots and supply fresh water to an estimated half of humanity. Present on every continent, mountains include a multitude of ecosystems holding many unique species such as snow leopards and mountain gorillas. They are also home to great cultural diversity among people adapted to the challenges of mountain life. Their special traditions and breath-taking scenery attract ever-growing numbers of tourists. Mountain regions are particularly sensitive to degradation from both human pressures and climate change. Steep slopes mean the clearing of forest for farming, settlements or infrastructure can cause serious soil erosion as well as the loss of habitat. Erosion and pollution harm the quality of water flowing downstream. Climate change threatens the quantity and timing of water supplies to farms, cities, industry and power stations. Fast-rising temperatures are forcing mountain species, ecosystems and the people that depend on them to adapt or migrate.

**SubQuestion No : 46**

Q.46 **Which is the best description of the tone of the passage?**

Ans ✓ 1. Humanistic

✗ 2. Emotional

✗ 3. Biased

✗ 4. Laudatory

**Comprehension:**

Read the given passage carefully and answer the questions that follow.

Mountains occupy about a quarter of the Earth's land, harbour most of its biodiversity hotspots and supply fresh water to an estimated half of humanity. Present on every continent, mountains include a multitude of ecosystems holding many unique species such as snow leopards and mountain gorillas. They are also home to great cultural diversity among people adapted to the challenges of mountain life. Their special traditions and breath-taking scenery attract ever-growing numbers of tourists. Mountain regions are particularly sensitive to degradation from both human pressures and climate change. Steep slopes mean the clearing of forest for farming, settlements or infrastructure can cause serious soil erosion as well as the loss of habitat. Erosion and pollution harm the quality of water flowing downstream. Climate change threatens the quantity and timing of water supplies to farms, cities, industry and power stations. Fast-rising temperatures are forcing mountain species, ecosystems and the people that depend on them to adapt or migrate.

**SubQuestion No : 47**

**Q.47 Which of the following most accurately states the central idea of the passage?**

**Ans**  ✗ 1. Biodegradation

  ✓ 2. Mountain ecosystem

  ✗ 3. Climate change

  ✗ 4. Pollution

---

**Comprehension:**

Read the given passage carefully and answer the questions that follow.

Mountains occupy about a quarter of the Earth's land, harbour most of its biodiversity hotspots and supply fresh water to an estimated half of humanity. Present on every continent, mountains include a multitude of ecosystems holding many unique species such as snow leopards and mountain gorillas. They are also home to great cultural diversity among people adapted to the challenges of mountain life. Their special traditions and breath-taking scenery attract ever-growing numbers of tourists. Mountain regions are particularly sensitive to degradation from both human pressures and climate change. Steep slopes mean the clearing of forest for farming, settlements or infrastructure can cause serious soil erosion as well as the loss of habitat. Erosion and pollution harm the quality of water flowing downstream. Climate change threatens the quantity and timing of water supplies to farms, cities, industry and power stations. Fast-rising temperatures are forcing mountain species, ecosystems and the people that depend on them to adapt or migrate.

**SubQuestion No : 48**

**Q.48 Which of the following represents the structure of the passage?**

**Ans**  ✗ 1. Definition

  ✗ 2. Chronological

  ✓ 3. Cause-effect

  ✗ 4. Compare and contrast

---

**Comprehension:**

Read the given passage carefully and answer the questions that follow.

Mountains occupy about a quarter of the Earth's land, harbour most of its biodiversity hotspots and supply fresh water to an estimated half of humanity. Present on every continent, mountains include a multitude of ecosystems holding many unique species such as snow leopards and mountain gorillas. They are also home to great cultural diversity among people adapted to the challenges of mountain life. Their special traditions and breath-taking scenery attract ever-growing numbers of tourists. Mountain regions are particularly sensitive to degradation from both human pressures and climate change. Steep slopes mean the clearing of forest for farming, settlements or infrastructure can cause serious soil erosion as well as the loss of habitat. Erosion and pollution harm the quality of water flowing downstream. Climate change threatens the quantity and timing of water supplies to farms, cities, industry and power stations. Fast-rising temperatures are forcing mountain species, ecosystems and the people that depend on them to adapt or migrate.

**SubQuestion No : 49**

**Q.49 What is the ANTONYM for the word 'migrate' from the passage?**

**Ans**  ✓ 1. Stay

  ✗ 2. Assume

  ✗ 3. Die

  ✗ 4. Run

**Comprehension:**

Read the given passage carefully and answer the questions that follow.

Mountains occupy about a quarter of the Earth's land, harbour most of its biodiversity hotspots and supply fresh water to an estimated half of humanity. Present on every continent, mountains include a multitude of ecosystems holding many unique species such as snow leopards and mountain gorillas. They are also home to great cultural diversity among people adapted to the challenges of mountain life. Their special traditions and breath-taking scenery attract ever-growing numbers of tourists.

Mountain regions are particularly sensitive to degradation from both human pressures and climate change. Steep slopes mean the clearing of forest for farming, settlements or infrastructure can cause serious soil erosion as well as the loss of habitat. Erosion and pollution harm the quality of water flowing downstream. Climate change threatens the quantity and timing of water supplies to farms, cities, industry and power stations. Fast-rising temperatures are forcing mountain species, ecosystems and the people that depend on them to adapt or migrate.

**SubQuestion No : 50**

**Q.50  What is the ANTONYM for the word 'diversity' from the passage?**

Ans   ✗ 1. Heritage

✗ 2. Block

✗ 3. Dilemma

✓ 4. Uniformity