PLACEMENTS

Infosys interview experience 2014

Infosys model questions contributed by Deepak Banglore
Placement pattern for Infosys consists of two rounds:
1 Infosys Written test
2 Infosys Final HR. Clearing the written test implies that the
chance of being selected to Infosys is almost done.

The written Test consists of two test patterns:
Aptitude Reasoning Test
No of Questions: 30
Duration: 40 minutes
Verbal ability
No of Questions: 40
Duration: 35 minutes
The Aptitude reasoning test pattern is distributed into 6 different
topics with 5 questions each as:
1 Picture Reasoning (5 questions)

In this section, a series of pictures are given which may consist of
picture series, picture analogy or picture classification.

2 STATEMENT REASONING(5 Questions)

In this section, sequence questions like seating arrangement or money distribution or height arrangement are given.

A set of five questions are based directly on the statements given.

3. DATA SUFFICIENCY (5 questions)

Here a set of two statements are given followed by 5 options which satisfy the answer for the statements. You have to decide which option best suits the answer.

4. DATA INTERPRETATION (5 questions)

This section consists of a direct sequence of 5 questions based on the data which is provided in the form of table charts, bar charts, pie charts or line charts.

5 RELATION PROBLEM (5 questions)

This section consists of questions which are similar to the sets and relations like students with biology, maths, physics and chemistry, maths and biology, only physics, etc., and questions related as such.

6.SYLLOGISM (5 questions)

This section consists of statement followed by two conclusions. We need to pick out from 5 options which suits the best answer

The Verbal Ability test pattern is distributed into 5 different topics as:

1. SENTENCE CORRECTION (8 questions)

Among 4 sentences the correct one should be detected

2.UNDERLINED A PART OF SENTENCE AND ASKED TO INSERT CORRECT PHRASE IN IT FROM THE GIVEN 4 OPTIONS (8questions)

3. FILL IN THE BLANKS (8questions)

4. THEME DETECTION (6 questions)

5. TWO READING COMPREHENSIONS (10 questions)

Below are the sample test papers for Infosys recruitment process:
PART A SAMPLE TEST PAPER OF APTITUDE REASONING FOR INFOSYS
Questions: 30 Duration: 40 Minutes
Directions (Questions 1-5) Each of the following questions consists of five figures marked A, B, C, D and E called the Problem Figures followed by five other figures marked 1, 2, 3, 4 and 5 called the Answer Figures. Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures.
Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures.
Problem Figures: Answer Figures:
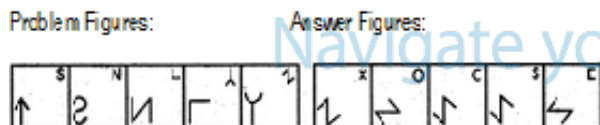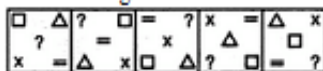

A. 1 B. 2 C. 3 D. 4 E. 5
Ans: C

Explanation: In each step, element at the upper-right position gets enlarged, inverts vertically and reaches the lower-left corner; the existing element at the lower-left position, is lost and a new small element appears at the upper-right position.
2. Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures.
Problem Figures: Answer Figures:

A. 1   B. 2   C. 3   D. 4   E. 5

A. 1 B. 2 C. 3 D. 4 E. 5

Ans: B

Explanation: In each step, the elements move in the sequence.

3. Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures.

Problem Figures: Answer Figures:
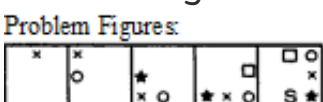

A. 1 B. 2 C. 3 D. 4 E. 5

Explanation: In each step, the CW-end element moves to the ACW-end position.

4. Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures.

Problem Figures: Answer Figures:

Ans: A

A. 1 B. 2 C. 3 D. 4 E. 5

Ans: A

Explanation: The 'x' moves one step and two steps ACW alternatively and a symbol is added each time it moves one before and the other after alternatively

5. Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures.

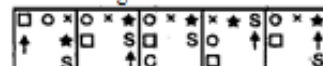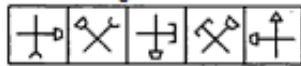Problem Figures: Answer Figures:

Problem Figures: Answer Figures:

(A)   (B)   (C)   (D)   (E)   (1)   (2)   (3)   (4)   (5)

A. 1   B. 2   C. 3   D. 4   E. 5

Ans: E

(A)   (B)   (C)   (D)   (E)   (1)   (2)   (3)   (4)   (5)

A. 1   B. 2   C. 3   D. 4   E. 5

Ans: E

Explanation: In each step, the figure rotates ACW and the trapezium gets inverted. The other symbol gets replaced by a new one alternatively.

Directions (Questions 6-10) Each of the following Questions consists of five options. Choose the best option that suits the question given.

6. Nithin was counting down from 32. Sumit was counting upwards the numbers starting from 1 and he was calling out only the odd numbers. What common number will they call out at the same time if they were calling at the same speed?

A. 19 B. 21 C.22 D.They will not call out the same numberE. None of these.

Ans: D

Explanation:
Nithin: 32 31 30 29 28 27 26 25 24 23 22 21 20…..Sumit: 1 3 5 7 9 11 13 15 17 19 21 23 25…Clearly it is seen that they never call out same nmber at the same time.

7. Radha moves towards South-east a distance of 7 km, then she moves towards West and travels a distance of 14m. From here, she moves towards North-west a distance of 7 m and finally she moves a distance of 4 m towards East and stod at that point. How far is the starting point from where she stood?

A. 3 m B. 4m C.8 m D10 m E.11 mAns:D

Explanation: The movements of Radha are shown as below:
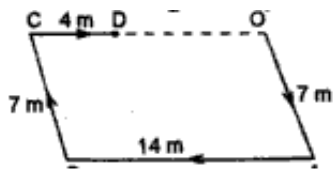
Clearly Radha's distance from starting point O = OD = (OC −CD) = (AB-CD) = (14-4) m = 10 m

8. In a certain office, 1/3 of the workers are women, ½ of the women are married and 1/3 of the married women have children. If 3/4 th of the men are married and2/3 rd of the married men have children, what part of workers are without children?A. 5/18 B. 4/9 C. 11/18 D17/18 E.17/36Ans: C

Explanation: Let total no. of workers be x

Number of women = x/3 and number of men = 2x/3Women married=1/2 * x/3 = x/6

Women having children = 1/3 *x/6 =x/18

Married Men =3/4 *2x/3 = x/2

Men having Children =2/3 * x/2 = x/3

Workers with children = x/3 + x/18 = 7x/18

Hence, workers without children = x- 7x/18 = 11x/18

9. A, P, R, X, S and Z are sitting in a row. S and z are in the centre. A and P are at the ends. R is sitting to the left of A. Who is to the right of P?A. P B. A C.X D.S E.ZAns: C

Explanation : The seating arrangement is as follows 😃 X S Z R AHence , right of P is X.

10. Introducing a boy, a girl said, "He is the son of the daughter of the father of my uncle." How is the boy related to the girl?

A. Brother B. Nephew C. Uncle D. son in law E. grand fatherAns: A
Explanation:

The father of the boy's uncle → the grandfather of the boy and daughter of the grandfather → sister of father.

Directions (Questions 11-12): Each Question Given Below has a

problem and two statements numbered I and II giving certain Information. You have to decide if the information given in the statements is sufficient for answering the problem. Indicate your answer as(i) if data in statement I alone are sufficient to answer the question;(ii) if data in statement II alone are sufficient to answer the question;

(iii) if data either in I or II alone are sufficient to answer the question;

(iv) if the data even in both the statements together are not sufficient to answer the question;

(v) if the data in both the statements are needed.

11. Is Anil taller than Sachin?I. Dinesh is of the same height as Arun and Sachin.

II. Sachin is not shorter than Dinesh.

A. i B. iii C. ii D. v E. ivAns: A

Explanation: From statement I, we can conclude that Dinesh, Arun and Sachin are of same height. So, Arun is not taller than Sachin. So, only statement I is sufficient to answer the question.

12. In a certain code language, '13' means 'stop smoking' and '59' means 'injurious habit'. What is the meaning of '9' and '5' respectively in that code?I. '157' means 'stop bad habit'

II. '839' means 'smoking is injurious'.

A. ii B. iii C. v D. iv E. i Ans: BExplanation: '59' means 'injurious habit' and '157' means 'stop bad habit'. Hence common letter '5' denotes 'habit'. Hence '9' is obviously 'injurious'. So I alone can be sufficient. Also, '59' is 'injurious habit' and '839' is 'smoking is injurious' from which it can be implied that '9' is 'injurious'. Hence II alone can also be sufficient. Hence either I or II alone can be sufficient.

Directions (13- 15): In the following problem, there is one question and three statements I, II and III below the question. You have to decide whether the data given in the statements is sufficient to answer the question. Read all the statements carefully and find out the probable pair which can be sufficient to answer the question.

13. Five persons — A, B, C, D and E are sitting in a row. Who is sitting in the middle?I. B is in between E and C.II. B is to the right of E.III. D

is in between A and E.I and II together B. II and III together C. I and III togetherD. I, II and III together E. Data insufficient.Ans: D

Explanation:

From I, the order is E, B, C or C, B, E.

From II, the order is E, B.

From III, the order is A, D, E.

Combining all the three, we get the order as: A, D, E, B, C.

Clearly, E is sitting in the middle.

Hence all the three statements are required.

14. Four Subjects — Physics, Chemistry, Mathematics and Biology were taught in four consecutive periods of one hour each starting from 8.00 a.m. At what time was the Chemistry period scheduled?I. Mathematics period ended at 10.00 am which was preceded by Biology.

II. Physics was scheduled in the last period.

III. Mathematics period was immediately followed by Chemistry.

Only I B. Only I or II C. Only II D. II and III together.E. I and II together or I and III together

Ans: E

Explanation: From I and II we conclude that Mathematics period began at9.00 a.m., Biology period began at 8.00 a.m. and Physics period began at 11.00 a.m. So, the Chemistry period began at 10.00 a.m.

From I and III, it is clearly seen that Mathematics period ended at 10.00 a.m. followed by Chemistry to start at 10.00 a.m.

15. How many sons does Sharma have? I. Saurav and Aditya are brothers of Sonali.II. Ayesha is sister of Sharmila and Aditya.

III. Ayesha and Sonali are daughters of Sharma.

A. I and II only. B. II and III together. C. I, II and III togetherD. I, II, III together are not sufficient E. I and III togetherAns: C

Explanation: From I, Saurav, Aditya and Sonali are siblings. From II, Ayesha, Sharmila and Aditya are siblings. It implies that Saurav, Aditya, Ayesha, Sharmila and Sonali are siblings. This is supported by III.

Directions (Questions 16-20): The following table shows the number of new employees added to different categories of employees in a company and also the no of employees from these

categories who left the company ever since the foundation of the company in 1995.

Year	Managers New	Managers Left	Technicians New	Technicians Left	Operators New	Operators Left	Accountants New	Accountants Left	Peons New	Peons Left
1995	760	—	1200	—	880	—	1160	—	820	—
1996	280	120	272	120	256	104	200	100	184	96
1997	179	92	240	128	240	120	224	104	152	88
1998	148	88	236	96	208	100	248	96	196	80
1999	160	72	256	100	192	112	272	88	224	120
2000	193	96	288	112	248	144	260	92	200	104

16. During the period of 1995 and 2000, the total no of operators who left the company is what percent of the total number of Operators who joined the company?A. 19% B. 21% C. 27% D. 29% E. 32% Ans: DExplanation: Total no. of operators who left the company during 1996 to 2000
= (104 + 120 + 100 + 112 + 144) = 580.
Total No. of Operators who joined the company during 1996 to 2000
= (880 + 256 + 240 + 208 + 192 + 248) = 2024.
Hence, required Percentage = (580/2024 * 100) = 28.66% = 29%
17. For which of the following categories the percentage increase in the number of employees working in the company from 1996 to 2000 was maximum?A. Managers B. Technicians C. Operators D. AccountantsE. Peons.
Ans: A
Explanation:
No. of managers in 1995 = 760
No. of managers by 2000 = (760 + 280 + 179 + 145 + 160 + 193) − (120 + 92 + 88 + 72 + 96) = 1252.
Hence, percentage of increase = (1262-760)/760 * 100 = 64.74%Similarly we can calculate for the rest of employees.
18. What is the difference between total number of Technicians added to the company and total number of Accountants added to the company during the year 1996 to 2000 at the maximum?A. 128 B. 112 C. 96 D. 88 E. 72Ans: D
Explanation: (272 + 240 + 236 + 256 + 288) − (200 + 224 + 248 + 272 + 260) = 88
19. What was the total no. of peons working in the company in the year 1999?A. 1312 B. 1192 C.1088 D.968 E.908Ans: B

Explanation: (820 + 184 + 152 + 196 + 224) – (96 + 88 + 80 + 120) = 1192

20. What is the pooled average of all employees in the year 1997?A. 1325 B. 1285 C. 1265 D. 1235 E. 1195Ans: E

Explanation:

Managers: (760 + 280 + 179) – (120 + 92) = 1007

Technicians: (1200 + 272 + 240) – (120 + 128) = 1464

Operators: (880 +256 +240) – (104 + 120) = 1152

Accountants: (1160 +200 +224) – (100 + 104) = 1380

Peons: (820 + 184 + 152) – (96 + 88) = 972

Hence pooled average of 5 categories = (1007 + 1464 + 1152 + 1380 + 972)/5 = 1195


Directions (Questions 21-25): The following questions are based on the information given. Choose the appropriate answer that suits the question based on the information.

A cube is cut in two equal parts along a plane parallel to one of its faces. One piece is then colored red on the two larger faces and green on remaining. While the other is colored green on two smaller adjacent faces and red on the remaining. Each is then cut into 32 cubes of same size and mixed up. 21. How many cubes have only one colored face each?A. 32 B. 8 C. 16 D. 24 E. 0Ans: C
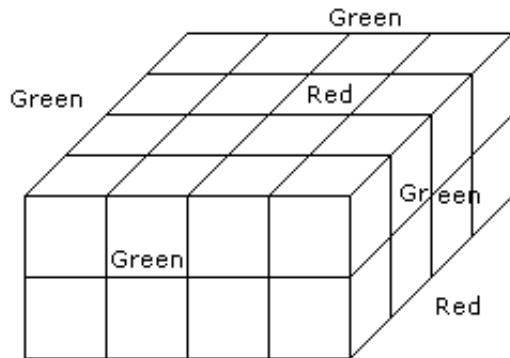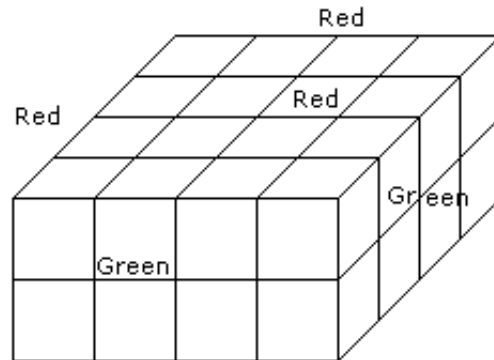
Explanation:
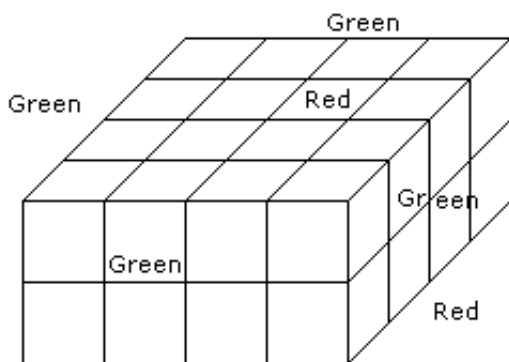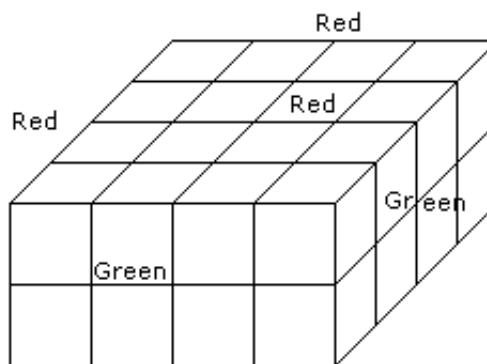
(I) (II)

8 from first half and 8 from second half of the main cube. Hence total of 16 cubes.

22. What is the number of cubes with at least one green face on each?A. 36 B. 32 C. 38 D. 48 E. 40Ans: C

Explanation:
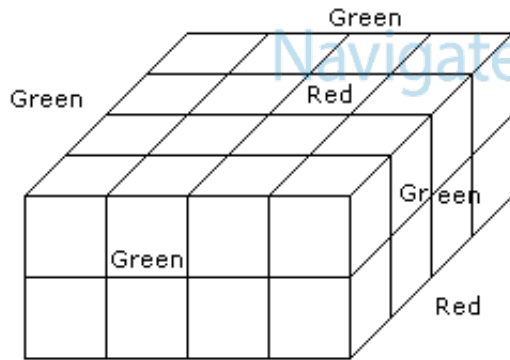

(I)   (II)

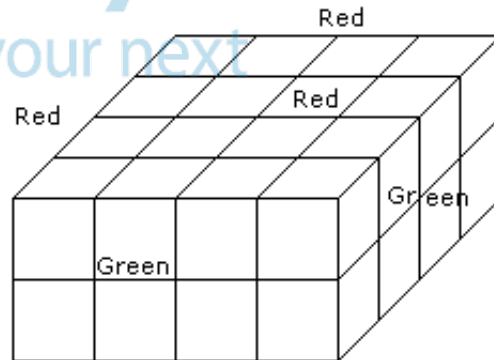24 from I and 14 from II

23. How many cubes have two red and one green face on each?A. 16 B. 12 C. 8 D. 4 E. 0Ans: D
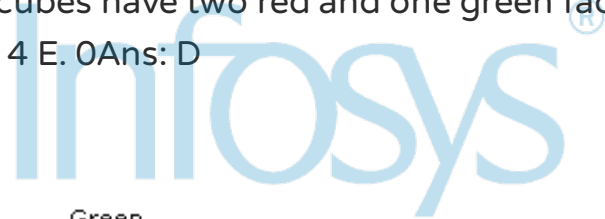
Explanation:

(I)   (II)
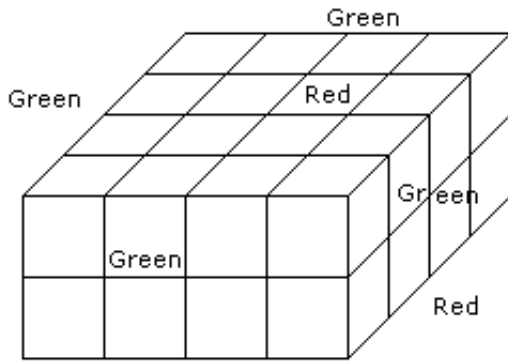
None from I and 4 from II

24. How many cubes have no colored face at all? A. 32 B. 24 C. 16 D. 8 E.0Ans: E

Explanation:
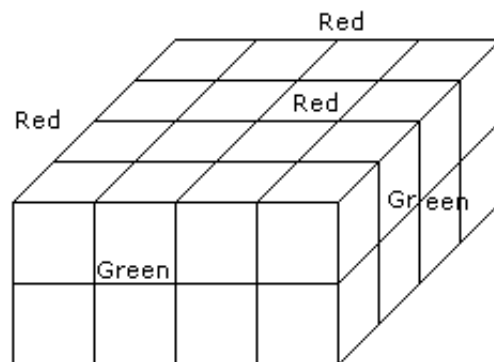
(I)   (II)

There is no cube in all, when all the faces are enclosured.

25. How many cubes have each one red and another green?A. 0 B. 8
C.16 D.24 E.32Ans: D

Explanation:
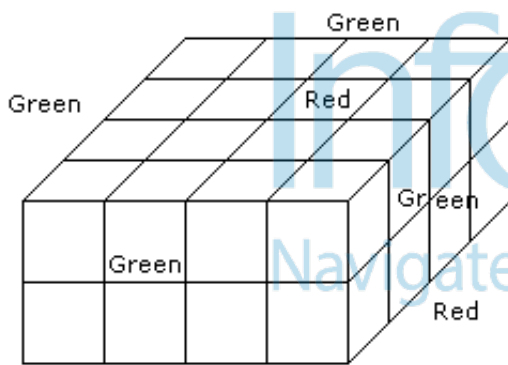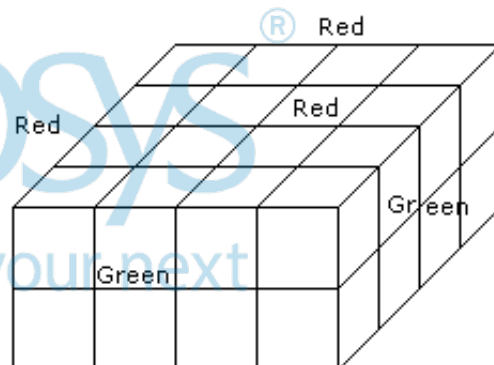
(I)   (II)

16 from I and 8 from II

Directions (Questions 26-30): In each of the following questions
two statements are given and these statements are followed by two
conclusions numbered (1) and (2). You have to take the given two
statements to be true even if they seem to be at variance from
commonly known facts. Read the conclusions and then decide
which of the given conclusions logically follows from the two given
statements, disregarding commonly known facts.

26. Statements: Some papers are pens. All the pencils are pens.
Conclusions:

1. Some pens are pencils.2. Some pens are papers.Only (1)

conclusion follows

Only (2) conclusion follows

Both (1) and (2) follow

Either (1) or (2) follows

Neither (1) nor (2) follows

Ans: C

Explanation:
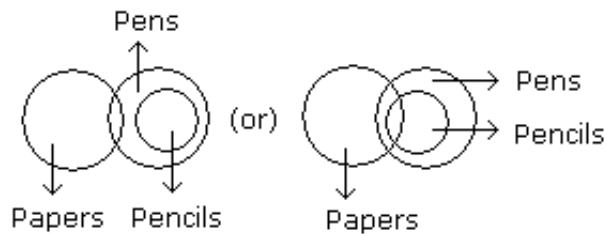
Both (1) and (2) follow.

27. Statements: Some dogs are bats. Some bats are cats.

Conclusions:

Some dogs are cats.

Some cats are dogs

Only (2) conclusion follows

Both (1) and (2) follow

Either (1) or (2) follows

Only (1) conclusion follows

Neither (1) nor (2) follows

Ans: E

Explanation:
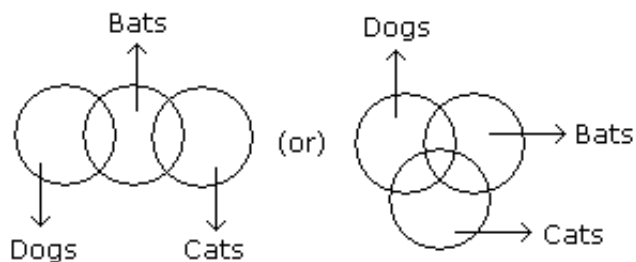
None of the two follows.

28. Statements: All the windows are doors. No door is a wall.

Conclusions:

Some windows are walls.

No wall is a door.

Either (1) or (2) follows

Only (2) conclusion follows

Both (1) and (2) follow

Neither (1) nor (2) follows

Only (1) conclusion follows

Ans: B

Explanation:
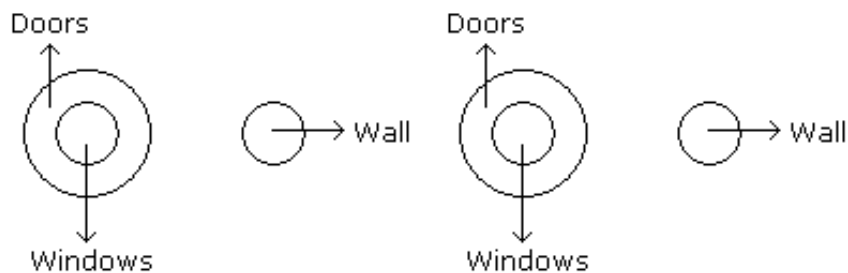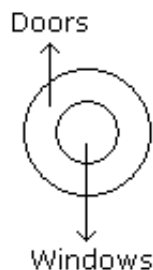
Only (2) follows.   Only (2) follows.

Only (2) follows.

29. Some actors are singers. All the singers are dancers.

Conclusions:

Some actors are dancers.

No singer is actor.

Only (1) conclusion follows

Only (2) conclusion follows

Either (1) or (2) follows

Neither (1) nor (2) follows

Both (1) and (2) follow

Ans: A

Explanation:
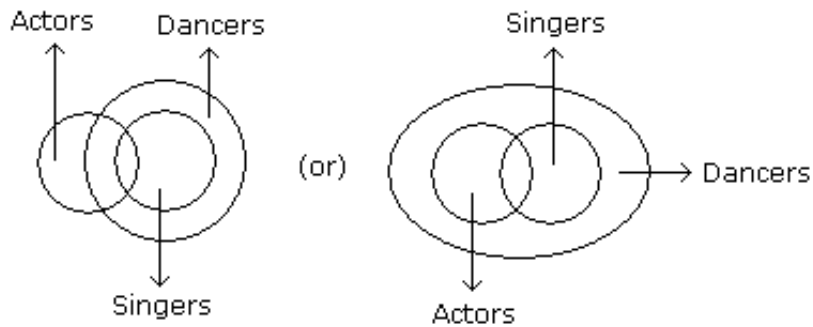
Only (1) follows.

30. Statements: All the pencils are pens. All the pens are inks.
Conclusions:

All the pencils are inks.

Some inks are pencils.

Only (2) conclusion follows

Only (1) conclusion follows

Either (1) or (2) follows

Both (1) and (2) follow

Neither (1) nor (2) follows

Ans: D

Explanation:
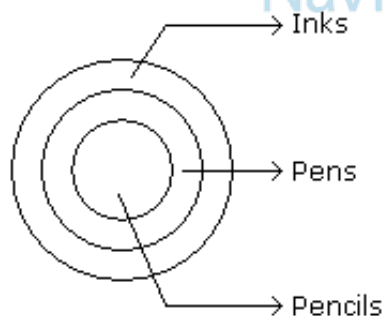
Both (1) and (2) follow.

PART B SAMPLE TEST PAPER OF Verbal ability FOR
INFOSYS

Questions: 40 Duration: 35 Minutes

Directions (Questions 1-8): Which of phrases given below each
sentence should replace the phrase printed in bold type to make the
grammatically correct? If the sentence is correct as it is, mark 'E' as
the answer.1. You need not come unless you want to.

A.You don't need to come unless you want to

B.You come only when you want to

C.You come unless you don't want to

D.You needn't come until you don't want to

E.No correction required

Ans: A

2. They were all shocked at his failure in the competition

A.were shocked at all

B.had all shocked at

C.had all shocked by

D.had been all shocked on

E.No correction required

Ans: E

3. Despite of their differences on matters of principles, they all agree on the demand of hike is salary?

A.Despite their

B.Despite of the

C.Despite for their

D.Despite off their

E.No correction required

Ans: A

4. He is a singer of repute, but his yesterday's performance was quite disappointing.

A.performances of yesterday were

B.yesterday performance was

C.esterday performance were

D.performances about yesterday were

E.No correction required

Ans: E

5.The crime has growth rapidly in Russia since the disintegration of the communist system.

A.rapid crime has grown

B.crime has grown rapidly

C.

crimes grow rapidly

D.crimes have been rapidly grown

E.No correction requiredAns: B

6. My hair stood off ends when I saw the horrible sight.

A.stood at ends

B.tood on ends

C.stood to ends

D.stands on ends

E.No correction requiredAns: B

7. The crops are dying; it must not had rained.

A.must had not

B.must not be

C.must not have

D.must not have been

E.No correction required

Ans: C8. The intruder stood quietly for few moments

A.for few time

B.for the few moments

C.for moments

D.for a few moments

E.No correction required

Ans: D

Directions (Questions 9-16): In questions given below, a part of the sentence is italicized and underlined. Below are given alternatives to the italicized part which may improve the sentence. Choose the correct alternative. In case no improvement is needed, option 'D' is the answer.

9.If the room had been brighter, I would have been able to read for a while before bed time.

A.If the room was brighter

B.If the room are brighter

C.Had the room been brighter

D.No improvement

Ans: C

10. If you are not clear about the meaning of a word, it is wise to look to a dictionary.

A.ook for

Book at

C.look up

D.No improvement

Ans: C

11. There is no more room for you in this compartment.

A.there is no more seat

B.there is no more space

C.there is no more accommodation

D.No improvement

Ans: B

12. More than one person was killed in accident.

A.were killed

B.are killed

C.have been killed

D.No improvement

Ans: A

13. Every time I go in a lift to my sixth floor apartment, I remember the calm and serenity of my ancestral home in the village.

A.move in a lift

B.ascend in a lift

C.take a lift

D.No improvement

Ans: C

14. My friend was in hospital for a week after an accident.

A.through

B.following

C.for

D.No improvement

Ans: B

15. If you are living near a market place you should be ready to bear the disturbances caused by traffic.

A.to bear upon

B.to bear with

C.to bear away

D.No improvement

Ans: B

16. In India today many of our intellectuals still talk in terms of the French Revolution and the Rights of Man, not appreciating that much has happened since then.

A.much has been happening

B.much had happened

C.much might happen

D.No improvement

Ans: D

Directions (Questions17-24): Pick out the most effective word(s) from the given words to fill in the blank to make the sentence meaningfully complete.

17. Catching the earlier train will give us the …… to do some shopping.

A.chance

B.luck

C.possibility

D.occasion

Ans: A

18. Many of the advances of civilization have been conceived by young people just on the …… of adulthood

A.boundary

B.threshold

C.peak

D.horizon

Ans: B

19. If I take a state roadways bus, I'll get late…?

A.isn't it

B.won't I

C.will I

D.s it

Ans: B

20. The paths of glory lead …… to the grave.

A.straight

B.but

C.in

D.directly

Ans: B

21. Wheat …… carbohydrates, vitamins, proteins, and dietary fibre in our daily diet.

A.has

B.gives

C.yields

D.provides

Ans: C

22.…….. all intents and purposes, the manager is the master of the firm.

A. in

B.upon

C.with

D.to

Ans: D

23.He …… in wearing the old fashioned coat in spite of his wife's disapproval.

A.insists

B.persists

C.desists

D.resists

Ans: B

24. We shall not to be able to use your ability in court unless we can find someone to …… to statements.

A.corroborate

B.avouch

C.verify

D.approve

Ans: A

Directions (Questions 25-30): Each of the following questions contains a small paragraph followed by a question on it. Read each paragraph carefully and answer the question given below it.

25.Due to enormous profits involved in smuggling, hundreds of persons have been attracted towards this anti-national activity. Some of them became millionaires overnight. India has a vast coastline both on the Eastern and Western Coast. It has been a heaven for smugglers who have been carrying on their activities with great impunity. There is no doubt, that from time to time certain seizures were made by the enforcement authorities, during raids and ambush but even allowing these losses the smugglers made huge profits.

The passage best supports the statement that

A.Smuggling hampers the economic development of a nation.
B.Smuggling ought to be curbed.
C.Authorities are taking strict measures to curb smuggling.
D.Smuggling is fast increasing in our country owing to the quick profit it entails.

Ans: D

26. Industrial exhibitions play a major role in a country's economy. Such exhibitions, now regularly held in Delhi, enable us to measure the extent of our own less advanced industrial progress and the mighty industrial power and progress of countries like the U.K., U.S.A. and Russia whose pavilions are the centers of the greatest attention and attractions.

The passage best supports the statement that industrial exhibitions

-A.Greatly tax the poor economies.
B.Are more useful for the developed countries like U.S.A. whose products stand out superior to those of the developing countries.
C.Are not of much use to the countries that are industrially

backward.

D.Boost up production qualitatively and quantitatively by analytical comparison of a country's products with those of the developed countries.

Ans: D

27. It is up to our government and planners to devise ways and means for the mobilization of about ten crore workers whose families total up about forty crore men, women and children. Our agriculture is over-manned. A lesser number of agriculturists would mean more purchasing or spending power to every agriculturist. This will result in the shortage of man-power for many commodities to be produced for which there will be a new demand from a prosperous agrarian class. This shortage will be removed by surplus man-power released from agriculture as suggested above.

The passage best supports the statement that:

A.Employment in production is more fruitful than employment in agriculture.

B.Indian economy is in a poor shape basically due to improper mobilization of man-power.

C.A shift of labour from agricultural sector to the industrial sector would uplift the living standard.

D.The industrial sector is labour-deficient while the agricultural sector is over-manned in our country.

Ans: B

28. The only true education comes through the stimulation of the child's powers by the demands of the social situations in which he finds himself. Through these demands he is stimulated to act as a member of a unity, to emerge from his original narrowness of action and feeling, and to conceive himself from the standpoint of the welfare of the group to which he belongs.

A.The passage best supports the statement that real education -A.

B.Will take place if the children imbibe action and feeling.

B.Will take place if the children are physically strong.

C.Is not provided in our schools today.

D.comes through the interaction with social situations

Ans: D

29. The virtue of art does not allow the work to be interfered with or immediately ruled by anything other than itself. It insists that it alone shall touch the work in order to bring it into being. Art requires that nothing shall attain the work except through art itself.

This passage best supports the statement that:

A.Art is governed by external rules and conditions.

B.Art is for the sake of art and life.

C.Art is for the sake of art alone.

D.Artist realizes his dreams through his artistic creation.

Ans: C

30. The attainment of individual and organizational goals is mutually interdependent and linked by a common denominator – employee work motivation. Organizational members are motivated to satisfy their personal goals, and they contribute their efforts to the attainment of organizational objectives as means of achieving these personal goals.

The passage best supports the statement that motivation -

A.Encourages an individual to give priority to personal goals over organizational goals.

B.Is crucial for the survival of an individual and organization.

C.s the product of an individual's physical and mental energy?

D.s the external force which induces an individual to contribute his efforts?

Ans: A

Directions (Questions31-40): The following section consists of two passages followed by set of questions. Read the passage thoroughly and answer the set of questions given below the passage.

(31 – 35):In the world today we make health and end in itself. We have forgotten that health is really means to enable a person to do his work and do it well. A lot of modern medicine and this includes many patients as well as many physicians pays very little attention to health but very much attention to those who imagine that they are ill. Our great concern with health is shown by the medical columns in newspapers. The health articles in popular magazines

and the popularity of television programmers and all those books on medicine. We talk about health all the time. Yet for the most part the only result is more people with imaginary illness. The healthy man should not be wasting time talking about health: he should be using health for work. The work does the work that good health possible.

31. Modern medicine is primarily concerned with

A.promotion of good health

B.people suffering from imaginary illness

C.people suffering from real illness

D.ncreased efficiency in work

Ans: B32. The passage suggests that

A.health is an end in itself

B.health is blessing

C.health is only means to an end

D.we should not talk about health

Ans: C

33. Talking about the health all time makes people

A.always suffer from imaginary illness

B.sometimes suffer from imaginary illness

C.rarely suffer from imaginary illness

D.often suffer from imaginary illness

Ans: D

34. The passage tells us

A.how medicine should be manufactured

B.what healthy man should or should not do

C.what television programmers should be about

D.how best to imagine illness

Ans: B

35.

A healthy man should be concerned with

A.his work which good health makes possible

B.looking after his health

C.his health which makes work possible

D.talking about health

Ans: A

(36-40): Organizations are institutions in which members complete for status and power. They compete for resource of the

organization, for example finance to expand their own departments, for career advancement and for power to control the activities of others. In pursuit of these aims, grouped are formed and sectional interests emerge. As a result, policy decisions may serve the ends of political and career systems rather than those of the concern. In this way, the goals of the organization may be displaced in favor of sectional interests and individual ambition. These preoccupations sometimes prevent the emergence of organic systems. Many of the electronic firms in the study had recently created research and development departments employing highly qualified and well paid scientists and technicians. Their high pay and expert knowledge were sometimes seen as a threat to the established order of rank, power and privilege. Many senior managers had little knowledge of technicality and possibilities of new developments and electronics. Some felt that close cooperation with the experts in an organic system would reveal their ignorance and show their experience was now redundant.

36. The theme of the passage is

A.Groupism in organizations

B.Individual ambitions in organizations

C.Frustration of senior managers

D.Emergence of sectional interests in organizations

Ans: D

37. "Organic system" as related to the organization implies its

A.growth with the help of expert knowledge

B.growth with input from science and technology

C.steady all around development

D.natural and unimpeded growth

Ans: B

38. Policy decision in organization would involve

A.cooperation at all levels in the organization

B.modernization of the organization

C.attracting highly qualified personnel

D.keeping in view the larger objectives of the organizations

Ans: C

39. The author makes out a case for

A.organic system

B.Research and Development in organizations

C.an understanding between senior and middle level executives

D.a refresher course for senior managers

Ans: A

40. The author tends to the senior managers as

A.ignorant and incompetent

B.a little out of step with their work environment

C.jealous of their younger colleagues

D.robbed of their rank, power and privilege

Ans: A

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1. 125 small but identical cubes are put together to form a large cube. This large cube is now painted on all six faces.
(i) How many of the smaller cubes have no face painted at all.
(a) 27
(b) 64
(c) 8
(d) 36

(ii) How many of the smaller cubes have exactly three faces painted?
(a) 98
(b) 100
(c) 96
(d) 95

(iii) How many of the smaller cubes have atleast one side painted?
(a) 4
(b) 8
(c) 9
(d) 27
Sol:
Side of larger cube is $125^{---\sqrt{3}}$
= 5
I) No face painted will be in the interior part of the cube.
Interior part will be a cube of side $(5 - 2) = 3$.
Hence no. of cubes with no face painted ll be 3^3
= 27
Ans : (a) 27

II) Cubes with 3 faces painted will be the vertices of the cube.
There will be 8 such cubes
Ans : 8 [Wrong options... 3rd options should come here]

III) Atleast 1 face painted $\Rightarrow$
greater than or equal to 1
Cube with 1 face painted + cube with 2 side painted + cube with 3 side painted
Cube with 1 face painted will be the outermost layer of larger cube but not on the edges.
i.e. $(5-2)^2$
= 9 cubes on 1 side
So totally $6 \times$
$9 = 54$ cubes
Cube with 2 face painted ll be edges of the larger cube but
$(5 - 2) = 3$.
Since a cube has 12 edges, totally $12\times$
$3 = 36$ cubes
Cube with 3 sides painted = 8 cubes
Totally $54 + 36 + 8 = 98$ cubes

Ans : 98

2. Directions : Study the following information and answer the question given below:
In a certain code, the symbols for 0 (zero) is @ and for 1 is $. There are no other symbols for all other number greater than one. The numbers greater than 1 are to be written only by using the two symbols given above. The value of the symbol for 1 doubles itself every time it shifts one place to the left. Study the following examples:
'0' is written as @, '1' is written as #, '2' is written as #, @ '3' is written as # #
'4' is written as #@@ and so on
=> Which of the following represents 14?
(a) #@@@
(b) ###@
(c) ##@@
(d) ##@#
Sol:
Answer (b) ###@
The given pattern is nothing but binary. In binary 2 = 10 ; 3 = 11
Thus 14 = 1110
So 14 = ###@

3. 7528 : 5306 :: 4673 : ?
a) 2367
b) 2451
c) 2531
d) 2489
Sol:
Answer is 2451.
As there is a difference of 2222.
7528 – 2222 = 5306.
So 4673 – 2222 = 2451

4. $x_2 – y_2 = 16$
and xy
= 15 so find out x + y ?
Sol:
$x_2 – y_2$
= 16
$(x+y)(x–y)$
= 16
So 16 comes in following table
1 ×
16, 2 × 8, 4 ×
4
Using 2 x 8 equation
$x+y=8$
and $x–y=2$

So x = 5 or 3 and y = 3 or 5
So answer is 8.

5. Census population of a district in 1981 was 4.54 Lakhs, while in year 2001 it was 7.44 Lakhs. What was the estimated mid-year population of that district in year 2009.
Sol:
1981 ⇒
 4.54
2001 ⇒
 7.44
Difference (year) = 20
Difference (population) = 2.9
So population per year = 2.9⁄20
= 0.145
2009 ⇒
 x = ?
Hence x = 7.44 + 8×0.145
=8.6 Lakhs

6. Based on the statement in the question, mark the most logical pair of statement that follow "Either he will shout or they will fire".
(1) He shouted.
(2) He did not shout.
(3) They fired
(4) They did not fire

(a) 1,4
(b) 2,3
(c) 4,1
Sol:
Either or condition is true atleast one of the condition should happen. Answer is option C because according to the given sentence.
"Either he will shout or they will fire"
One of the two must happen whether he shouting or they firing.
If one of them happens, the other will not happen.
So if he did not shout then the firing should happen,so they fired.
If they did not fire it means the first thing has happened, so he shouted.

7. Gautham passes through seven lane to reach his school. He finds that YELLOW lane is between his house and KAMA lane. The third lane from his school is APPLE lane. PEACOCK lane is immediately before the PARK lane. He passes ASH lane at the end. KAMA lane is between YELLOW lane and PEACOCK lane. The sixth lane from his house is RAO lane.
I. How many lane are there between KAMA lane and RAO lane ?
a) one
b) two
c) three

d) four

II. After passing the park lane how many lane does Gautham cross to reach the school ?
a) 4
b) 3
c) 2
d) 1

III. After passing the YELLOW lane how many lane does Gautham cross to reach the school ?
a) 4
b) 6
c) 2
d) 1

IV. Which lane is between PARK lane and RAO lane ?
a) YELLOW lane
b) KAMA lane
c) APPLE lane
d) PEACOCK lane

V. If the house of Gautham,each lane and his school are equidistant and he takes 2 min to pass one lane then how long will he take to reach school from his house ?
a) 18 min
b) 16 min
c) 14 min
d) 12 min
Sol:
1. 3 Lanes between KAMA lane and RAO lane
2. Answer is 2 because after passing the PARK lane Gautham cross 3 lane to reach the school.
3. After passing the YELLOW lane Gautham cross 6 lane to reach the school.
4. APPLE lane
5. 16 minutes

8. Find the maximum value of n such that 50! is perfectly divisible by 2520^n .
Sol:
$2520 = 2^3 \times 3^2 \times 5 \times 7$
Here 7 is the Highest prime So find the number of 7's in 50! only.
Number of 7's in 50! = $[\frac{50}{7}] + [\frac{50}{7^2}]$
$= 7 + 1 = 8$
For n(max) = 8, 50! is perfectly divisible by 2520^8
.

9. Find the no of ways in which 6 toffees can be distributed over 5 different people namely A,B,C,D,E.
Sol:
We assume that all the toffees are similar. Then Number of ways are $(n+r-1)C_{r-1}$

. Here A + B + C + D + E = 6
Here r = 5, n = 6
Number of ways = $_{6+5-1}C_{5-1}$ = $_{10}C_4$ = 210.

If all the toffees are different, then each toffee can be distributed to any of the five. So total ways are 5_6
.

10. A train covered a distance at a uniform speed .if the train had been 6 km/hr faster it would have been 4 hour less than schedule time and if the train were slower by 6 km/hr it would have been 6 hrs more.find the distance.
Sol:
Let t be the usual time taken by the train to cover the distance
Let d be the distance, s be the usual speed
Usual time taken→
d/s = t => d =$t \times s$

$ds+6$
= t − 4
$t \times ss+6$
= t − 4
ts = ts + 6t − 4s − 24
6t − 4s − 24 = 0 →
 (1)
d/(s − 6) = t + 6
ts = ts − 6t + 6s − 36
− 6t + 6s − 36=0 →
(2)
Solving (1) and (2), v get
s = 30 km/h
t = 24 hrs
d = $t \times s$
d = 30×24
= 720 km
Ans : 720 km

11. A girl leaves from her home. She first walks 30 metres in North-west direction and then 30 metres in South-west direction. Next, she walks 30 metres in South-east direction. Finally, she turns towards her house. In which direction is she moving?
Option
A) North-east
B) North-west
C) South-east
D) South-west
E) None of these
Sol:

A.North-east

12. There are two containers on a table. A and B. A is half full of wine, while B,which is twice A's size, is one quarter full of wine. Both containers are filled with water and the contents are poured into a third container C. What portion of container C's mixture is wine?
Sol:
Let d size of container A is "x"
then B's size will be "2x"
A is half full of wine $\Rightarrow \frac{x}{2}$

So remaining "$\frac{x}{2}$
" of A contains water
B is quarter full of win $\Rightarrow \frac{2x}{4} \Rightarrow \frac{x}{2}$
So remaining $\Rightarrow 2x - \frac{x}{2} = \frac{3x}{2}$
$\frac{3x}{2}$
of B contains water
Totally C has A's content + B's Content = x + 2x = 3x
Wine portion in C = $\frac{x}{2}$
of "A" + $\frac{x}{2}$
of "B"
x portion of wine
Water portion in C = $\frac{x}{2}$
of "A" + $\frac{3x}{2}$
of "B"
$\Rightarrow \frac{4x}{2} \Rightarrow 2x$
portion of water
So portion of wine in C is
$\frac{x}{3x} = \frac{1}{3}$
portion of wine
if 1/3 expressed in %
$\frac{1}{3} \times 100$
= 33.33%
Ans : 33.33% of wine

13. Four persons A,B,C,D were there. All were of different weights. All Four gave a statement.Among the four statements only the person who is lightest in weight of all others gave a true statement.
A Says : B is heavier than D.
B Says : A is heavier than C.
C Says : I am heavier than D.
D Says : C is heavier than B.
Find the lightest and List the persons in ascending order according to their weights ?
Sol:
A says B > D
B says A > C

C says C > D
D says C > B
Since the person with lightest weight tells the truth
C lies (If C tells the truth, then C is not the lightest and then C lies)
⇒
D > C is the true statement.
So D is also not the lightest person and D lies.
B > C
So from A and B only one is telling the truth and that is not B because
B > C, so B is not the lightest
A is the lightest
Ans: A

14. There is well of depth 30 m and frog is at bottom of the well. He jumps 3 m in one day and falls back 2 m in the same day. How many days will it take for the frog to come out of the well?
Sol:
28 days
Frog jumps 3 m in day & falls back 2 m at night
so,frog will be 3 – 2 = 1 m up in a day.
Thus, in 27 days it will be 27 m up
On 28th day it will be at top i.e 27 + 3 = 30 m & will not fall down.

15. Find the next term in the given series
47, 94, 71, 142, 119, 238, _ ?
a.331
b.360
c.320
d.340
Sol:
Ans : 215, 430
(47, 94) (71, 142) (119, 238) (X, Y)
47×2
= 94
94 – 23 = 71
71×2
=142
142 – 23 = 119
119×2
= 238
238 – 23 = 215
215×2
= 430
So the next 2 terms are 215 , 430

16. A train leaves Meerut at 5 a.m. and reaches Delhi at 9 a.m. Another train leaves Delhi at 7 a.m. and reaches Meerut at 10.30 a.m. At what time do the two trains travel in order to cross each other ?
Sol:
Let the total distance be x
So the speed of 1st train is x/4 and 2nd train x/3.5
In 2 hours 1st train covers half of the total distance .
So remaining is only half of the total distance(ie x/2).
Let t be the time taken
$t \times x4 + t \times x3.5 = x2$
t = 1415
i.e. 56 min
i.e. Total time taken= 2 hrs + 56 min
Time they cross each other is 7:56 am (5+2.56)
Answer 7:56 am

17. 'A' and 'B' started a business in partnership investing Rs 20000/- and Rs 15000/- respectively. After six months 'C' jointed them with Rs 20000/-. What will be B's share in the total profit of Rs 25000/- earned at the end of two years from the starting of the business?
Sol:
A:B:C = (20000×24):(15000×24):(20000×18)
 = 4 : 3 : 3
B's Share = 3×250004+3+3
= 7500

18. b,x,e,u,h,_?
Sol:
We know that a = 1,b = 2, ..., z = 26
Convert the alphabets into numbers.we get number series as follows
2, 24, 5, 21, 8
In these (2,5,8) belong to one group as they have common difference of 3
(24,21,_?)these are of one group as they have difference of –3.
So the next number is 21 – 3=18.
If we convert 18 into alphabet it is "r".
Since r = 18.

19. 3,5,11,29,83,245, _ ?
Sol:
We have to find the differences between the given numbers and then by applying that number with 3 we can get the result
5 – 3 = 2
See here the result is 2,then multiply it with 3
11 – 5 = 6
29 – 11 = 18
83 – 29 = 54
245 – 83 = 162

731– 245 = 486

5 – 3 = 2

11 – 5 = 6 (2×3
)

29 – 11 = 18 (6×3
)

83 – 29 = 54 (18×3
)

245 – 83 = 162 (54×3
)

731 – 245 = 486 (162×3
)

20. A Jar contains 18 balls. 3 blue balls are removed from the jar and not replaced.Now the probability of getting a blue ball is 1/5 then how many blue balls jar contains initially ?

Sol:

$x/15 = 1/5$

$x = 3$

3 + 3 (removed 3 blue balls) = 6

1. A boy asks his father, "what is the age of grandfather?". Father replied " He is x years old in x^2 years", and also said, "we are talking about 20th century". What is the year of birth of grandfather?

Ans: 1892

2. A boy travels in a scooter after covering 2/3rd of the distance the wheel got punctured he covered the remaining distance by walk. Walking time is twice that of the time the boy's riding time. How many times the riding speed as that of the walking speed?

Ans: 4 times.

3. In a Knockout tournament 51 teams are participated, every team thrown out of the tournament if they lost twice. How many matches to be held to choose the winner?

Ans: 101 matches

4. A man sold 2 pens. Initial cost of each pen was Rs. 12. If he sell it together one at 25% profit and another 20% loss. Find the amount of loss or gain, if he sells them separately.

Ans: 60 Paise gain

5. The Novice hockey tournaments are on for beginners. Just three teams are in the league, and each plays the other two teams just once. Only part of the information appears in the result chart, which is given below.

Team	Games	Won	Lost	Tied	Goals For	Goals against
A	2			1	0	
B	2	1			1	2
C	2					

The scoring pattern in the tournament is as follows:

Two points are awarded to the winning team. In case of a tie, both teams are awarded one point, so the total points in the standings should always equal the total number of games played (since each game played is counted as one for each of the two participating teams). Of course, total goals scored for and goals scored against must be the same, since every goal scored for one team is scored against another.

The games are played in the following order: Game 1: A Vs B; Game 2: A Vs C; Game B Vs C Can you determine the score of each of the above games ?

Ans: A – B = 0-1.
        A – C = 0-0.
        B – C = 0-2.

6. A recent murder case centered around the six men, clam, flip, gront, herm, mast, and Walt. In one order or another man were the victim, the murderer, the witness, the police, the judge, and the hangman. The facts of the case were simple. The victim had died instantly from the effect of gunshot wound inflicted a shot. After a lengthy trial the murderer was convicted, sentenced to death, and hanged.

    Mast knew both the victim and the murderer.
    In court the judge asked clam his account of the shooting.
    Walt was the last of the six to see flip alive.
    The police testified that he picked up gront near the place where the body was found.
    Herm and Walt never met.

What role did each of the following play in this melodrama?

    Murderer – Flip
    Victim - Herm
    Judge   - Mast
    Witness   - Gront

7. Jim, Bud and Sam were rounded up by the police yesterday because one of them as suspected of having robbed the local bank. The three suspects made the following statements under intensive questioning.

    Jim: I'm innocent
    Bud: I'm innocent
    Sam: Bud is the guilty one.

If only one of the statements turned out to be true, who robbed the bank?

Ans: BUD.

8. There are two containers on a table. A and B. A is half full of wine, while B, which is twice A's size, is one quarter full of wine. Both containers are filled with water and the contents are poured into a third container C. What portion of container C's mixture is wine?

Ans: 33.33%

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