

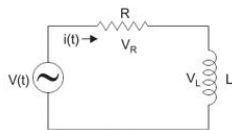


DELHI METRO RAIL CORPORATION LTD.
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Roll No.	www.studytosuccess.in
Test Date	26/02/2020
Test Time	9:00 AM - 11:15 AM
Subject	Junior Engineer Electrical CNE01

Section : **Technical**

Q.1 In the circuit shown below, $V_R = 3V$ and $V_L = 4V$. What is the power factor of the circuit? (Consider current $i(t)$ as reference phasor.)



- Ans
- 1. 1.0
 - 2. 0.8
 - 3. 0.6
 - 4. 0.2

Question ID : **1499863530**
Status : **Answered**
Chosen Option :

Q.2 एक NPN (CE कॉन्फिगरेशन) ट्रांजिस्टर में, $I_C = 50 \text{ mA}$ और $I_E = 50.5 \text{ mA}$ है। धारा लब्धि β का मान ज्ञात कीजिए।

- Ans
- 1. 200
 - 2. 10
 - 3. 100
 - 4. 50

Question ID : **1499863582**
Status : **Answered**
Chosen Option :

Q.3 विद्युत परिपथ की प्रवेशता (admittance) को $Y = (3 + j4)$ द्वारा दर्शाया गया है। इस परिपथ में प्रतिरोध का मान कितना है?

- Ans
- 1. $4/25 \Omega$
 - 2. $3/25 \Omega$
 - 3. 4Ω
 - 4. 3Ω

Question ID : 1499863531
Status : Answered
Chosen Option :

Q.4 एक बंद विद्युत परिपथ में 10Ω प्रतिरोध से प्रवाहित होने वाली AC धारा को $i(t) = 3 + 4 \sin(\omega t) + 4 \sin(2\omega t)$ A द्वारा दर्शाया गया है। धारा का rms मान ज्ञात कीजिए।

- Ans
- 1. 3 A
 - 2. 10 A
 - 3. 8 A
 - 4. 5 A

Question ID : 1499863529
Status : Answered
Chosen Option :

Q.5 A coil with 500 turns carries a current of 2 A. What is the MMF of the coil?

- Ans
- 1. 20 AT
 - 2. 200 AT
 - 3. 1000 AT
 - 4. 55 AT

Question ID : 1499863521
Status : Answered
Chosen Option :

Q.6 What are the terminals in a single phase 3-pin plug?

- Ans
- 1. Phase, Phase, Phase
 - 2. Phase, Neutral, Ground
 - 3. Phase, Phase, Neutral
 - 4. Phase, Phase, Ground

Question ID : 1499863571
Status : Answered
Chosen Option :

Q.7 A series RLC circuit supplied by 220 V ac voltage has $R = 10 \Omega$, $L = 10 \text{ mH}$ and $C = 1 \mu\text{F}$. Find the quality factor of inductor at resonance?

- Ans**
- 1. 10
 - 2. 100
 - 3. 20
 - 4. 50

Question ID : 1499863533
Status : Answered
Chosen Option :

Q.8 A 3- ϕ Y connected balanced load has balanced currents with RYB sequence given by:

$$\begin{bmatrix} I_R \\ I_Y \\ I_B \end{bmatrix} = \begin{bmatrix} 10 \angle 0^\circ \\ 10 \angle -120^\circ \\ 10 \angle +120^\circ \end{bmatrix}$$

Calculate the zero sequence current I_0 .

- Ans**
- 1. twenty
 - 2. fifty
 - 3. ten
 - 4. zero

Question ID : 1499863568
Status : Answered
Chosen Option :

Q.9 An ac voltage source of 250 V (rms) supplies active power of 300 Watts and reactive power of 400 VAR. Find the value of current (rms) drawn by the source.

- Ans**
- 1. 10 A
 - 2. 6 A
 - 3. 2 A
 - 4. 4 A

Question ID : 1499863525
Status : Answered
Chosen Option :

Q.10 In a 3- ϕ induction motor, the frequency of rotor emf at standstill is equal to ($s = \text{slip}$, $f = \text{stator supply frequency}$):

- Ans**
- 1. F
 - 2. 2 f
 - 3. Sf
 - 4. (1-s)f

Question ID : 1499863554
Status : Answered
Chosen Option :

Q.11 Which of the following statements is true for a 1 - ϕ transformer?

- Ans 1. Emf induced per turn in the primary winding is less than the emf induced per turn in the secondary winding.
2. Emf induced per turn in the primary winding is twice the emf induced per turn in the secondary winding.
3. Emf induced per turn in the primary winding is equal to the emf induced per turn in the secondary winding.
4. Emf induced per turn in the primary winding is greater than emf induced per turn in the secondary winding.

Question ID : 1499863557
Status : Answered
Chosen Option :

Q.12 The average demand and maximum demand from load curve characteristics of the load connected to utility systems are 30 and 60. Determine the load factor.

- Ans 1. 0.7
2. 0.5
3. 0.8
4. 0.2

Question ID : 1499863560
Status : Answered
Chosen Option :

Q.13 The output power of a NPN transistor (CE configuration) is 300 mW. If the collector current is 30 mA, then the maximum collector to emitter voltage (V_{CE}) is:

- Ans 1. 50 V
2. 10 V
3. 1 V
4. 100 V

Question ID : 1499863581
Status : Answered
Chosen Option :

Q.14 Two resistors of 4 Ω and 6 Ω are connected in series and supplied by 50 V dc. What is the voltage across 6 Ω resistor?

- Ans 1. 50 V
2. 20 V
3. 10 V
4. 30 V

Question ID : 1499863511
Status : Answered
Chosen Option :

Q.15 The current drawn by a dc series motor is increased from 10 A to 12 A. What is the percentage increase in torque?
(Neglect saturation.)

- Ans
- 1. 50
 - 2. 64
 - 3. 44
 - 4. 20

Question ID : 1499863546
Status : Answered
Chosen Option :

Q.16 The rating of a current transformer is 500/10 A and the current setting is given as 150. What is the value of the pickup current of the relay?

- Ans
- 1. 2 A
 - 2. 10 A
 - 3. 15 A
 - 4. 4 A

Question ID : 1499863564
Status : Not Answered
Chosen Option : --

Q.17 A light source of 900 candelas is situated 3 m above a working surface. Calculate the illuminance directly below the source.

- Ans
- 1. 100 lumens
 - 2. 200 lumens
 - 3. 50 lumens
 - 4. 500 lumens

Question ID : 1499863572
Status : Answered
Chosen Option :

Q.18 The following data was obtained for a 10 kVA, 200/1000 V, 50 Hz, 1- ϕ transformer.

Open circuit test (high voltage side open circuited) – 200 V, 1.2 A, 120 W.

Find the value of the core-loss component of the current.

- Ans
- 1. 1.2 A
 - 2. 2.4 A
 - 3. 0.6 A
 - 4. 1.8 A

Question ID : 1499863556
Status : Answered
Chosen Option :

Q.19 An under excited synchronous motor is operating at:

- Ans
- 1. unity power factor
 - 2. leading power factor
 - 3. lagging power factor
 - 4. zero power factor

Question ID : 1499863555
Status : Answered
Chosen Option :

Q.20 The location of ground faults in underground cables can be found by:

- Ans
- 1. Megger
 - 2. Murray loop test
 - 3. Electro-dynamometer
 - 4. Ohm-meter

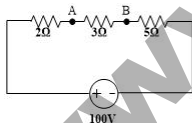
Question ID : 1499863539
Status : Answered
Chosen Option :

Q.21 A generating station has a connected load of 43 MW and a maximum demand of 20 MW. Calculate the demand factor.

- Ans
- 1. 0.11
 - 2. 1.0
 - 3. 0.82
 - 4. 0.46

Question ID : 1499863570
Status : Answered
Chosen Option :

Q.22 In the circuit shown below, if the resistor $3\ \Omega$ across the terminals (A – B) is disconnected, then find the voltage (V_{AB}).



- Ans
- 1. 100 V
 - 2. Zero
 - 3. 50 V
 - 4. 150 V

Question ID : 1499863513
Status : Answered
Chosen Option :

Q.23 In arc welding, the establishment of arc is produced by:

- Ans
- 1. thermal energy
 - 2. electrical energy
 - 3. mechanical energy
 - 4. chemical energy

Question ID : 1499863575
Status : Answered
Chosen Option : 2

Q.24 In a 3 - ϕ , delta/star connected transformer, the ratio of phase voltages (primary to secondary) is 3 : 1. Find the ratio of their line voltages.

- Ans
- 1. 1 : 2
 - 2. $\sqrt{3}$: 1
 - 3. 3 : 1
 - 4. 3 : 2

Question ID : 1499863558
Status : Answered
Chosen Option : 2

Q.25 The charge (q) flowing in a conductor is $q = (3t^2 - 5t)$ mC (t = time). Calculate the current flowing in the conductor at t = 3 seconds?

- Ans
- 1. 13 mA
 - 2. 10 mA
 - 3. 6.5 mA
 - 4. 26 mA

Question ID : 1499863510
Status : Not Answered
Chosen Option : --

Q.26 What is the prescribed voltage level for resistance or reactance grounding?

- Ans
- 1. < 600 V
 - 2. 33 kV – 66 kV
 - 3. > 33 kV
 - 4. 3.3 kV – 33 kV

Question ID : 1499863573
Status : Answered
Chosen Option : 4

Q.27 For a given conductor, if the cross-sectional area increases, then:

- Ans
- 1. resistance of the conductor increases
 - 2. resistance of the conductor decreases
 - 3. current rating of the conductor decreases
 - 4. resistance of the conductor does not change

Question ID : 1499863561
Status : Answered
Chosen Option : 2

Q.28 The relay used for protection of an oil immersed transformer against all internal faults is:

- Ans
- 1. Buchholz relay
 - 2. Mho relay
 - 3. Admittance relay
 - 4. Impedance relay

Question ID : 1499863562
Status : Answered
Chosen Option : 1

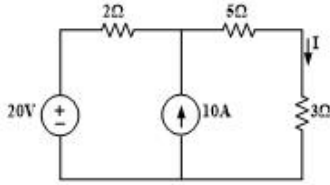
Q.29 Which of the following generating stations does NOT require fuel to generate electricity?

- Ans
- 1. Diesel power plant
 - 2. Thermal power plant
 - 3. Nuclear power plant
 - 4. Hydro-electric power plant

Question ID : 1499863569
Status : Answered
Chosen Option : 4

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Q.30 What is the value of the current flowing in $3\ \Omega$ resistor?



- Ans
- 1. 10 A
 - 2. 1 A
 - 3. 7 A
 - 4. 4 A

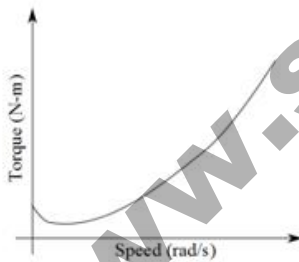
Question ID : 1499863514
Status : Answered
Chosen Option : 4

Q.31 A permanent magnet moving coil ammeter having internal resistance of $0.8\ \Omega$ has full scale division of (0-10) A. What value of resistor should be added to increase its range to (0-50) A?

- Ans
- 1. $0.2\ \Omega$ in series with the metre
 - 2. $0.04\ \Omega$ in series with the metre
 - 3. $0.2\ \Omega$ in parallel with the metre
 - 4. $0.04\ \Omega$ in parallel with the metre

Question ID : 1499863535
Status : Answered
Chosen Option : 4

Q.32 The characteristic curve (speed vs torque) shown below is exhibited by:



- Ans
- 1. grinding load
 - 2. metal drawing load
 - 3. cranes and hoists load
 - 4. fan load

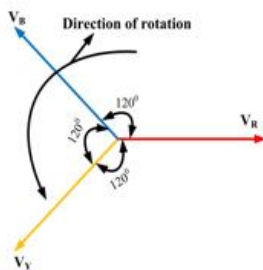
Question ID : 1499863578
Status : Answered
Chosen Option : 3

Q.33 The X and Y plates of a cathode ray oscilloscope are provided with sinusoidal inputs of equal amplitude and frequency which are 90° out of phase. The resulting Lissajous pattern will be a:

- Ans 1. circle
 2. parabola
 3. horizontal straight line
 4. vertical straight line

Question ID : 1499863538
 Status : Answered
 Chosen Option : 4

Q.34 From the following phasor diagram identify the sequence component vectors.



- Ans 1. Zero sequence
 2. Positive sequence
 3. Negative sequence
 4. Oscillating

Question ID : 1499863566
 Status : Answered
 Chosen Option : 1

Q.35 The primary and secondary voltages of an auto transformer are 200 V and 120 V respectively. It supplies a load of 15 kW at unity power factor. Calculate the power transferred to the load by conduction.

- Ans 1. 9 kW
 2. 15 kW
 3. 18 kW
 4. 25 kW

Question ID : 1499863549
 Status : Not Answered
 Chosen Option : --

Q.36 In two wattmeter methods of measuring power in a 3 - ϕ , 3 - wire system supplying balanced load, if $W_1 = 2W_2$, then what is the power factor of the load?

- Ans
- 1. 2
 - 2. 1.5
 - 3. $\sqrt{3}/2$
 - 4. 0.5

Question ID : 1499863540
Status : Answered
Chosen Option : 1

Q.37 A dc shunt generator has core loss of 100 W and armature resistance of 0.25 Ω . What is the load current corresponding to maximum efficiency? Assume armature current (I_a) = Load current (I_L).

- Ans
- 1. 30 A
 - 2. 20 A
 - 3. 40 A
 - 4. 10 A

Question ID : 1499863545
Status : Answered
Chosen Option : 2

Q.38 In a moving iron ammeter, the deflection(θ) of the pointer is proportional to the:

- Ans
- 1. square of the operating current
 - 2. square root of the operating current
 - 3. cube of the operating current
 - 4. operating current

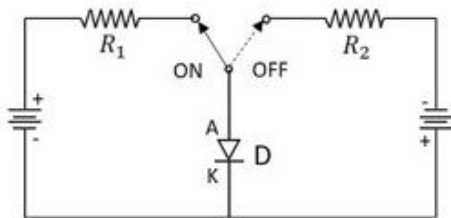
Question ID : 1499863541
Status : Answered
Chosen Option : 1

Q.39 What is the value of back emf in a dc shunt motor at the instant of starting?

- Ans
- 1. Zero
 - 2. Equal to the input voltage
 - 3. Half of the input voltage
 - 4. Double the input voltage

Question ID : 1499863543
Status : Answered
Chosen Option : 2

Q.40 Consider the circuit shown below.



If the switch is in the ON position the diode:

- Ans 1. is forward biased
 2. remains idle
 3. is reverse biased
 4. is saturated

Question ID : 1499863583
 Status : Answered
 Chosen Option : 3

Q.41 Which of the following materials is a diamagnetic material?

- Ans 1. Copper
 2. Tungsten
 3. Potassium
 4. Oxygen

Question ID : 1499863520
 Status : Answered
 Chosen Option : 1

Q.42 The Synchronous speed (N_s) of a 3 - Φ induction motor is directly proportional to

(f = stator supply frequency):

- Ans 1. $1/f$
 2. f^2
 3. f
 4. $1/f^2$

Question ID : 1499863551
 Status : Answered
 Chosen Option : 3

Q.43 एक संधारित्र की परावैद्युत हानि के मापन के लिए निम्न में से किस ब्रिज का उपयोग किया जाता है?

- Ans
- 1. ओवेन ब्रिज
 - 2. एंडरसन ब्रिज
 - 3. शेरिंग ब्रिज
 - 4. मैक्सवेल ब्रिज

Question ID : 1499863536
Status : Answered
Chosen Option : 3

Q.44 Which property of the oil helps to break the current in an oil circuit breaker?

- Ans
- 1. Induction
 - 2. Radiation
 - 3. Insulation
 - 4. Conduction

Question ID : 1499863565
Status : Answered
Chosen Option : 3

Q.45 A 3 - Φ , 8 pole 50 Hz induction motor runs at 600 rpm. Calculate slip.

- Ans
- 1. 0.8
 - 2. 1
 - 3. 0.2
 - 4. 10

Question ID : 1499863550
Status : Answered
Chosen Option : 3

Q.46 What is the effect of armature reaction in a 3 - ϕ alternator, when the load power factor is unity?

- Ans
- 1. Magnetising
 - 2. Demagnetising
 - 3. Cross magnetising
 - 4. Magnetising and demagnetising

Question ID : 1499863547
Status : Answered
Chosen Option : 3

Q.47 A solenoid of 50 cm is wound on a brass tube. If the current through the coil is 1 A, then calculate the number of turns necessary over the solenoid to produce field strength of 400 AT/m at the centre of the coil.

- Ans 1. 200
 2. 100
 3. 600
 4. 500

Question ID : 1499863522
Status : Not Answered
Chosen Option : --

Q.48 A 250 V lamp has a luminous flux of 1500 lumens and takes current of 0.4 A. Calculate lumens per watt.

- Ans 1. 5
 2. 10
 3. 15
 4. 1

Question ID : 1499863576
Status : Not Answered
Chosen Option : --

Q.49 Why is copper the material of choice for underground cables?

- Ans 1. Low resistance
 2. Low frequency
 3. High resistance
 4. Low bandwidth

Question ID : 1499863567
Status : Answered
Chosen Option : 1

Q.50 Two alternating quantities operating at the same frequency are given by $V_1(t) = 10\sin(\omega t)$ and $V_2(t) = 10\sin(\omega t + 45^\circ)$. What is the phase difference between them with respect to $V_1(t)$?

- Ans 1. 15°
 2. 45°
 3. 60°
 4. 90°

Question ID : 1499863527
Status : Answered
Chosen Option : 2

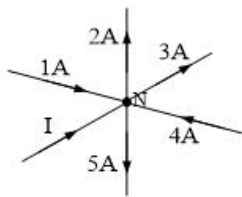
Q.51 In the expression $e = L(di/dt)$ (where $e =$ emf of a coil, $i =$ current through the coil, $t =$ time) L represents:

- Ans 1. self-inductance
 2. conductance
 3. capacitance
 4. resistance

Question ID : 1499863519
 Status : Answered
 Chosen Option : 1

Q.52 N

Find the current I flowing towards the node (N) in the circuit shown below.



- Ans 1. 15 A
 2. 1 A
 3. 5 A
 4. 10 A

Question ID : 1499863515
 Status : Answered
 Chosen Option : 3

Q.53 A 4 pole dc shunt generator running at 500 rpm has a simplex wave wound armature containing 48 coils of 6 turns each.

The flux produced per pole is 0.02 Wb. Calculate the induced emf in the armature.

- Ans 1. 192 V
 2. 384 V
 3. 96 V
 4. 48 V

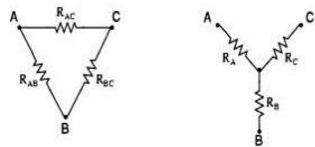
Question ID : 1499863542
 Status : Answered
 Chosen Option : 1

Q.54 Two 15 MVA, 3 - ϕ alternators are operating in parallel to supply a load of 25 MVA at 0.8 power factor lagging. If the output of alternator - 1 is 18 MVA at 0.9 power factor lagging, then what is the output of alternator - 2?

- Ans
- 1. 15 MW
 - 2. 20 MW
 - 3. 3.8 MW
 - 4. 10 MW

Question ID : 1499863548
 Status : Not Answered
 Chosen Option : --

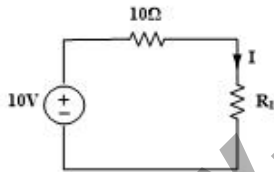
Q.55 In the circuit shown below, $R_{AB} = 3 \Omega$, $R_{BC} = 6 \Omega$ and $R_{AC} = 9 \Omega$ are connected in delta. Find the star equivalent of the delta connected resistors (R_A , R_B and R_C)?



- Ans
- 1. 1.5 Ω , 1 Ω , 3 Ω
 - 2. 3 Ω , 6 Ω , 4.5 Ω
 - 3. 3 Ω , 6 Ω , 9 Ω
 - 4. 2 Ω , 4 Ω , 8 Ω

Question ID : 1499863532
 Status : Answered
 Chosen Option : 1

Q.56 Find the maximum power transferred to the load resistance (R_L).



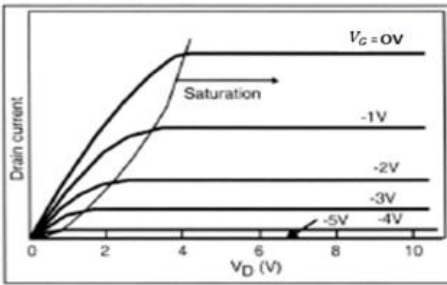
- Ans
- 1. 1.0 W
 - 2. 2.5 W
 - 3. 6.0 W
 - 4. 4.0 W

Question ID : 1499863516
 Status : Answered
 Chosen Option : 2

Q.57 निम्नांकित चित्र में प्रदर्शित अभिलक्षणों से डिवाइस के प्रकार की पहचान कीजिए।

(X अक्ष: V_D (ड्रेन वोल्टेज);

Y अक्ष: I_D (ड्रेन विद्युत-धारा); $V_G =$ गेट वोल्टेज)



- Ans
- 1. PN डायोड
 - 2. FET
 - 3. SCR
 - 4. BJT

Question ID : 1499863579

Status : Not Answered

Chosen Option : --

Q.58 What is the value of form factor for alternating voltage or current varying sinusoidally?

- Ans
- 1. 0.5
 - 2. 1.11
 - 3. 1.414
 - 4. 0.866

Question ID : 1499863528

Status : Answered

Chosen Option : 2

Q.59 The process of electro deposition of metal upon metallic surfaces is called:

- Ans
- 1. electric lighting
 - 2. electric heating
 - 3. electroplating
 - 4. electric welding

Question ID : 1499863577

Status : Answered

Chosen Option : 3

Q.60 To measure the current in a 1- ϕ transmission line, primary winding of current transformer is connected in:

- Ans 1. series with the line carrying current
 2. parallel to the load
 3. parallel with the line carrying current
 4. parallel to the source

Question ID : 1499863537
Status : Answered
Chosen Option : 1

Q.61 A circuit consists of four resistors (5 Ω , 10 Ω , 20 Ω , 30 Ω) connected in parallel and supplied by a dc source of 100 V. Which resistor among the four in the above circuit has least value of current?

- Ans 1. 30 Ω
 2. 5 Ω
 3. 10 Ω
 4. 20 Ω

Question ID : 1499863517
Status : Answered
Chosen Option : 1

Q.62 In an electrical heating process, the high frequency capacitive heating is also known as:

- Ans 1. infrared heating
 2. dielectric heating
 3. induction heating
 4. resistance heating

Question ID : 1499863574
Status : Answered
Chosen Option : 2

Q.63 In a permanent magnet moving coil instrument, which force is responsible to move the pointer from the zero position?

- Ans 1. Deflecting force
 2. Controlling force
 3. Frictional force
 4. Damping force

Question ID : 1499863534
Status : Answered
Chosen Option : 4

Q.64 The stator of 3 - ϕ , 16 pole alternator has a star connected winding with 144 slots and 10 conductors per slot. Find the pitch factor when the winding is short pitched by 3 slots.

- Ans
- 1. 1
 - 2. $\sqrt{3}/2$
 - 3. 0.5
 - 4. 1.64

Question ID : 1499863552
Status : Not Answered
Chosen Option : --

Q.65 What is the relation between resistance (R_1 and R_2) of two bulbs rated for the same voltage and having powers of 400 W and 100 W respectively?

- Ans
- 1. $R_1 = 4R_2$
 - 2. $R_2 = 4R_1$
 - 3. $R_1 = 2R_2$
 - 4. $R_2 = 2R_1$

Question ID : 1499863512
Status : Answered
Chosen Option : 2

Q.66 In a 4-pole dc machine, a coil span of 120 electrical degrees is equal to:

- Ans
- 1. 240 mechanical degrees
 - 2. 60 mechanical degrees
 - 3. 180 mechanical degrees
 - 4. 120 mechanical degrees

Question ID : 1499863544
Status : Answered
Chosen Option : 2

Q.67 The power of retaining magnetism even after the removal of the magnetising force is called:

- Ans
- 1. retentivity
 - 2. reluctance
 - 3. inductance
 - 4. relativity

Question ID : 1499863523
Status : Answered
Chosen Option : 1

Q.68 What is the unit for American Wire Gauge (AWG) conductors?

- Ans
- 1. Watts
 - 2. Volts
 - 3. Thousand circular mil (MCM)
 - 4. Amperes

Question ID : 1499863559
Status : Answered
Chosen Option : 3

Q.69 The necessary phase difference between the main current and the auxiliary current in a 1 - ϕ capacitor start capacitor run induction motor is produced by:

- Ans
- 1. connecting a capacitor in series with starting winding
 - 2. connecting a capacitor in parallel with starting winding
 - 3. connecting a resistor in series with starting winding
 - 4. connecting an inductor in parallel with starting winding

Question ID : 1499863553
Status : Answered
Chosen Option : 2

Q.70 प्रतिरोधकता (resistivity) की इकाई क्या है?

- Ans
- 1. ओम मीटर (Ω -m)
 - 2. एम्पियर (A)
 - 3. वोल्ट (V)
 - 4. कूलाम (C)

Question ID : 1499863509
Status : Answered
Chosen Option : 1

Q.71 The phenomena arising due to unequal distribution of current over the entire cross-section of the conductor in a long-distance transmission line is referred to as:

- Ans
- 1. electromagnetic effect
 - 2. electrostatic effect
 - 3. skin effect
 - 4. magnetic effect

Question ID : 1499863563
Status : Answered
Chosen Option : 3

Q.72 The name Bipolar in BJT signifies:

- Ans
- 1. current flow is due to transport of only electrons but not holes
 - 2. current flow is due to transport of neither holes nor electrons
 - 3. current flow is due to transport of only holes but not electrons
 - 4. current flow is due to transport of both electrons and holes

Question ID : 1499863580
Status : Answered
Chosen Option : 4

Q.73 Two equal resistors are first connected in series and then in parallel across a dc supply. What is the ratio (series circuit to parallel circuit) of total heat dissipated by the resistors for the two cases at a given time?

(Assume that the current from the dc source is same in both cases.)

- Ans
- 1. 2 : 3
 - 2. 1 : 2
 - 3. 4 : 1
 - 4. 3 : 2

Question ID : 1499863518
Status : Answered
Chosen Option : 3

Q.74 A 5 μF pure capacitor carries a current of 5 A when a sinusoidal ac voltage is applied. What is the average power dissipated by the capacitor over one cycle of ac supply?

- Ans
- 1. 25 W
 - 2. 50 W
 - 3. Zero
 - 4. 5 W

Question ID : 1499863524
Status : Answered
Chosen Option : 3

Q.75 A series RLC circuit is supplied by ac voltage of 50 V (rms). What is the value of the current (rms) supplied by the source at resonance?

(Resistance (R) = 10 Ω , inductance (L) = 10 mH and capacitance (C) = 10 μF .)

- Ans
- 1. 15 A
 - 2. 5 A
 - 3. 10 A
 - 4. 20 A

Question ID : 1499863526
Status : Answered
Chosen Option : 2

Section : General Awareness

Q.1 सिख सम्राट 'महाराजा रणजीत सिंह' का पुत्र कौन था?

- Ans
- 1. महाराजा महा सिंह
 - 2. महाराजा शेर सिंह
 - 3. महाराजा चरत सिंह
 - 4. महाराजा दलीप सिंह

Question ID : 1499863585
Status : Not Answered
Chosen Option : --

Q.2 भारत के राष्ट्रपति द्वारा राज्यसभा के कितने सदस्यों को नामित किया जा सकता है?

- Ans
- 1. 11
 - 2. 10
 - 3. 12
 - 4. 13

Question ID : 1499863590
Status : Answered
Chosen Option : 3

Q.3 भारत सरकार द्वारा 'राष्ट्रीय चिकित्सा आयोग' के पहले प्रमुख के रूप में किसे नियुक्त किया गया है?

- Ans
- 1. प्राध्यापक सुरेश चंद्र शर्मा
 - 2. प्राध्यापक राज पाल
 - 3. प्राध्यापक जे.एस. तेलि
 - 4. प्राध्यापक अतुल कुमार

Question ID : 1499863597
Status : Not Answered
Chosen Option : --

Q.4 कितने देशों के साथ, यूनाइटेड किंगडम अपनी भूमि सीमा साझा करता है?

- Ans
- 1. 2
 - 2. 1
 - 3. 3
 - 4. 0

Question ID : 1499863589
Status : Answered
Chosen Option : 1

Q.5 किस वर्ष में, भारत ने स्वीडन के साथ 'बोफोर्स' समझौते पर हस्ताक्षर किए?

- Ans
- 1. 1984
 - 2. 1986
 - 3. 1980
 - 4. 1987

Question ID : 1499863592
Status : Answered
Chosen Option : 2

Q.6 किस देश में 'वतांगी दिवस' मनाया जाता है?

- Ans
- 1. ऑस्ट्रेलिया
 - 2. दक्षिण अफ्रीका
 - 3. स्पेन
 - 4. न्यूजीलैंड

Question ID : 1499863594
Status : Not Answered
Chosen Option : --

Q.7 1975 में, इंग्लैंड में आयोजित पहला क्रिकेट विश्व कप किसने जीता?

- Ans
- 1. इंग्लैंड
 - 2. ऑस्ट्रेलिया
 - 3. वेस्ट इंडीज
 - 4. श्रीलंका

Question ID : 1499863595
Status : Answered
Chosen Option : 3

Q.8 आयुष्मान खुराना ने किस फिल्म के लिए, 2019 में 66वें राष्ट्रीय फिल्म पुरस्कार में 'सर्वश्रेष्ठ अभिनेता का पुरस्कार' जीता?

- Ans
- 1. बधाई हो
 - 2. ड्रीम गर्ल
 - 3. अंधाधुन
 - 4. आर्टिकल 15

Question ID : 1499863596
Status : Answered
Chosen Option : 3

Q.9 'इज़राइल' में समय ज़ोन क्या है?

- Ans
- 1. GMT+2
 - 2. GMT+3
 - 3. GMT+1
 - 4. GMT+2:30

Question ID : 1499863588
Status : Not Answered
Chosen Option : --

Q.10 जॉर्डन नदी, किस समुद्र में अपवाह होती है?

- Ans
- 1. भूमध्य सागर
 - 2. काला सागर
 - 3. लाल सागर
 - 4. मृत सागर

Question ID : 1499863587
Status : Not Answered
Chosen Option : --

Q.11 लोकसभा के पहले अध्यक्ष कौन थे?

- Ans
- 1. एम. ए. अयंगर
 - 2. नीलम संजीव रेड्डी
 - 3. गणेश वासुदेव मावलंकर
 - 4. सरदार हुकम सिंह

Question ID : 1499863591
Status : Answered
Chosen Option : 3

Q.12 मुगल सम्राट 'अकबर' का पूर्ववर्ती कौन था?

- Ans
- 1. औरंगज़ेब
 - 2. जहाँगीर
 - 3. शेर शाह सूरी
 - 4. हुमायूँ

Question ID : 1499863584
Status : Answered
Chosen Option : 4

Q.13 2 जनवरी 2020 को, प्रधानमंत्री नरेंद्र मोदी ने कितने DRDO प्रयोगशालाओं का उद्घाटन किया है?

- Ans
- 1. 2
 - 2. 5
 - 3. 6
 - 4. 1

Question ID : 1499863598
Status : Not Answered
Chosen Option : --

Q.14 किस वर्ष में, USA एक स्वतंत्र देश बना?

- Ans
- 1. 1776
 - 2. 1780
 - 3. 1775
 - 4. 1778

Question ID : 1499863586
Status : Answered
Chosen Option : 3

Q.15 1 जनवरी 2020 के दिन भारत में ताजा दूध और पाश्चुरीकृत दूध पर GST कितना था?

- Ans
- 1. 0%
 - 2. 12%
 - 3. 18%
 - 4. 5%

Question ID : 1499863593
Status : Answered
Chosen Option : 4

Section : Quantitative Aptitude

Q.1 यदि $\sin A = 4/5$ and $\cos B = 3/5$ है, तो $\sin A \cos B - \sin B \cos A$ का मान ज्ञात कीजिए।

- Ans
- 1. 3
 - 2. 2
 - 3. 0
 - 4. 1

Question ID : 1499863611
Status : Answered
Chosen Option : 3

Q.2 रोहित एक कार्य को 36 दिन में पूरा कर सकता है, जबकि स्मिता उसी कार्य को 24 दिन में पूरा कर सकती है। यदि वे दोनों एक साथ मिलकर कार्य करते हैं, तो यह कार्य $14\frac{2}{5}$ दिन में पूरा हो जाता है। स्मिता, रोहित से कितने प्रतिशत अधिक कार्यकुशल है?

- Ans
- 1. 50%
 - 2. 40%
 - 3. 30%
 - 4. 20%

Question ID : 1499863607
Status : Answered
Chosen Option : 2

Q.3 पेट्रोल का मूल्य ₹84 प्रति लीटर है और केरोसिन का मूल्य ₹39 प्रति लीटर है। यदि इन दोनों के मिश्रण को ₹90 प्रति लीटर की दर से बेचने पर 20% का लाभ होता है, तो मिश्रण में पेट्रोल और केरोसिन का अनुपात ज्ञात कीजिए।

- Ans
- 1. 1 : 3
 - 2. 1 : 1
 - 3. 1 : 2
 - 4. 1 : 4

Question ID : 1499863605
Status : Not Answered
Chosen Option : --

Q.4 एक आदमी अपने सहकर्मी को 8% वार्षिक साधारण ब्याज की दर से 3 वर्ष बाद ₹57,040 वापस करता है। उसने अपने सहकर्मी से कितनी धनराशि उधार ली थी?

- Ans
- 1. ₹46,000
 - 2. ₹56,000
 - 3. ₹76,000
 - 4. ₹66,000

Question ID : 1499863602
Status : Answered
Chosen Option : 2

Q.5 एक हवाई जहाज 100 मीटर की ऊंचाई पर उड़ रहा है। हवाई जहाज में बैठे एक यात्री द्वारा देखे जाने पर जहाज से दो विपरीत दिशाओं में सीधी रेखा पर मौजूद दो बाइकों के अवनमन कोण 30° और 45° प्राप्त होते हैं। इन बाइकों के बीच की दूरी क्या होगी?

- Ans
- 1. $108(\sqrt{3}+1)$ m
 - 2. $109(\sqrt{3}+1)$ m
 - 3. $100(\sqrt{3}+1)$ m
 - 4. $110(\sqrt{3}+1)$ m

Question ID : 1499863610
Status : Not Answered
Chosen Option : --

Q.6 4.5, 50 और 75 का महत्तम समापवर्तक (HCF) ज्ञात कीजिए।

- Ans
- 1. 75
 - 2. 4.5
 - 3. 0.5
 - 4. 0.3

Question ID : 1499863599
Status : Answered
Chosen Option : 3

Q.7 एक पुष्पवाटिका में तीन प्रकार के पुष्प, अर्थात् 38 गुलदाउदी, 114 चमेली और 76 सूर्यमुखी के पौधे हैं। पंक्तियों की संख्या न्यूनतम रखने के लिए प्रत्येक पंक्ति में कितने पौधे लगाए जाने चाहिए?

- Ans
- 1. 19
 - 2. 76
 - 3. 38
 - 4. 114

Question ID : 1499863600
Status : Answered
Chosen Option : 4

Q.8 द्विघात समीकरण $2x^2 - 25x + 77 = 0$ के मूलों के वर्गों के अंतर का मापांक ज्ञात कीजिए।

- Ans
- 1. 18.75
 - 2. 18.76
 - 3. 18.78
 - 4. 18.77

Question ID : 1499863613
Status : Not Answered
Chosen Option : --

Q.9 एक दुकानदार एक मेज को 35% के लाभ पर बेचने का निर्णय लेता है। यदि दुकानदार इस मेज के मूल्य पर कुछ छूट देता है, तो लाभ घटकर 25% हो जाता है। छूट का प्रतिशत ज्ञात कीजिए।

- Ans
- 1. $\frac{200}{37}\%$
 - 2. $\frac{200}{57}\%$
 - 3. $\frac{200}{27}\%$
 - 4. $\frac{200}{47}\%$

Question ID : 1499863604

Status : Not Answered

Chosen Option : --

Q.10 सरिता को उसके स्कूल पहुंचने में 0.35 घंटे लगते हैं। उसके घर से उसके स्कूल की दूरी 28 km है। उसके स्कूल से उसके घर की दूरी तय करते समय सरिता की चाल कितनी थी?

- Ans
- 1. 95 km/hr
 - 2. 90 km/hr
 - 3. 80 km/hr
 - 4. 70 km/hr

Question ID : 1499863606

Status : Answered

Chosen Option : 3

Q.11 ₹2,430 के दो भाग 4 : 5 के अनुपात में हैं, तो वे दोनों भाग कौन-कौन से हैं?

- Ans
- 1. ₹1,080 और ₹1,350
 - 2. ₹1,000 और ₹1,350
 - 3. ₹980 और ₹1,350
 - 4. ₹1,080 और ₹1,300

Question ID : 1499863601

Status : Answered

Chosen Option : 1

Q.12 उस गुणोत्तर श्रेणी (GP) की चार संख्याएं ज्ञात कीजिए, जिसके तीसरे और पहले पद का अंतर 11 है तथा चौथे और दूसरे पद का अंतर 22 है?

- Ans
- ✓ 1. 11/3, 22/3, 44/3 और 88/3
 - ✗ 2. 22/3, 55/6, 55/3 और 187/6
 - ✗ 3. 22/3, 55/3, 110/3 और 187/3
 - ✗ 4. 11, 33/2, 22, और 77/2

Question ID : 1499863609
Status : Not Answered
Chosen Option : --

Q.13 48 के गुणनखंडन में सम अभाज्य गुणनखंडों की संख्या ज्ञात कीजिए।

- Ans
- ✓ 1. 1
 - ✗ 2. 2
 - ✗ 3. 0
 - ✗ 4. 4

Question ID : 1499863612
Status : Answered
Chosen Option : 4

Q.14 यदि एक कुर्सी को ₹600 में बेचने पर दुकानदार को 25% का लाभ होता है, तो कुर्सी का क्रय मूल्य ज्ञात कीजिए।

- Ans
- ✓ 1. ₹ 480
 - ✗ 2. ₹ 380
 - ✗ 3. ₹ 580
 - ✗ 4. ₹ 280

Question ID : 1499863603
Status : Answered
Chosen Option : 1

Q.15 भौतिकी में 24 छात्रों द्वारा प्राप्त अंकों का औसत 75 है। यदि दो निम्नतम प्राप्तांकों को नहीं जोड़ा जाता, तो शेष बच्चों के प्राप्तांकों का औसत 78 प्राप्त होता है। यदि एक निम्नतम प्राप्तांक 68 है, तो दूसरा निम्नतम प्राप्तांक ज्ञात कीजिए।

- Ans
- ✗ 1. 15
 - ✗ 2. 14
 - ✓ 3. 16
 - ✗ 4. 17

Question ID : 1499863608
Status : Not Answered
Chosen Option : --

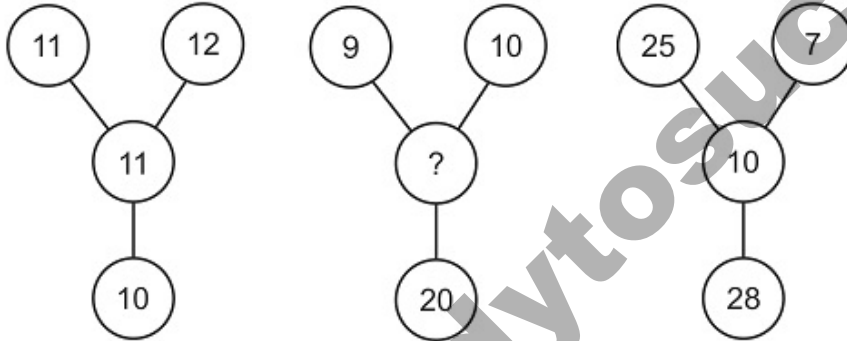
Section : General Intelligence and Reasoning

Q.1 नीचे दिए गए प्रश्न में, एक कथन दिया गया है जिसके बाद दो निष्कर्ष I और II दिए गए हैं। आपको कथन में दिए गए सब कुछ को सत्य मान लेना है, फिर दो निष्कर्षों पर एक साथ विचार करें और निर्णय लें कि कथन में दी गई जानकारी में से कौन सा तार्किक रूप से एक उचित संदेह से परे है।
उत्तर दीजिए:
(A) यदि केवल निष्कर्ष I का अनुसरण करता है
(B) यदि केवल निष्कर्ष II का अनुसरण करता है
(C) यदि I या II अनुसरण करते हैं
(D) यदि I और II दोनों अनुसरण करते हैं
कथन: तापदीप्त लैम्प पर LED लैम्प पसंद किए जाते हैं।
निष्कर्ष 1: वे अधिक चमक प्रदान करते हैं।
निष्कर्ष 2: वे पर्यावरण के अधिक अनुकूल हैं।

- Ans
- 1. A
 - 2. C
 - 3. B
 - 4. D

Question ID : 1499863615
Status : Answered
Chosen Option : 4

Q.2 निम्नलिखित संख्या श्रृंखला में लुप्त संख्या ज्ञात करें।



- Ans
- 1. 22
 - 2. 21
 - 3. 25
 - 4. 30

Question ID : 1499863628
Status : Answered
Chosen Option : 2

Q.3 एक श्रृंखला दी गई है जिसमें एक पद लुप्त है। दिए गए विकल्पों में से सही विकल्प का चयन करें जो श्रृंखला को पूरा करेगा।
15, 5, 17, 4, 19, ____

- Ans
- 1. 2
 - 2. 21
 - 3. 20
 - 4. 3

Question ID : 1499863616
Status : Answered
Chosen Option : 4

Q.4 निम्नलिखित अक्षर को व्यवस्थित करने पर एक उपयुक्त शब्द बनता है।

AVSEBORINTO

बनाए गए शब्द के अक्षर A की स्थिति क्या है?

- Ans
- 1. 5
 - 2. 1
 - 3. 8
 - 4. 7

Question ID : 1499863627

Status : Answered

Chosen Option : 2

Q.5 दिए गए विकल्पों में से तीन एक निश्चित तरीके से समान हैं। हालाँकि, एक विकल्प अन्य तीन की तरह नहीं है। उस विकल्प का चयन करें जो अन्य से अलग है।

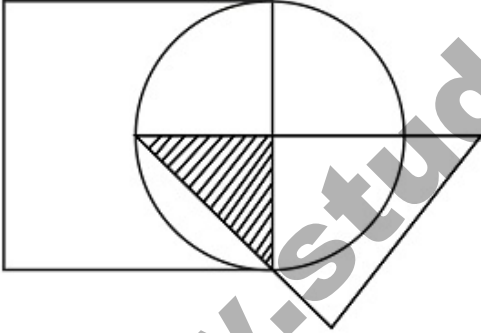
- Ans
- 1. कलन
 - 2. ज्यामिति
 - 3. प्रकाशिकी
 - 4. बीजगणित

Question ID : 1499863620

Status : Answered

Chosen Option : 3

Q.6 दी गई आकृति में, त्रिभुज जिले का प्रतिनिधित्व करता है, वृत्त गांव का प्रतिनिधित्व करता है और आयत शहर का प्रतिनिधित्व करता है।
दी गई आकृति में छायांकित भाग क्या दर्शाता है?



- Ans
- 1. शहर, गांव
 - 2. गांव, जिला
 - 3. जिला, शहर
 - 4. सभी तीन

Question ID : 1499863624

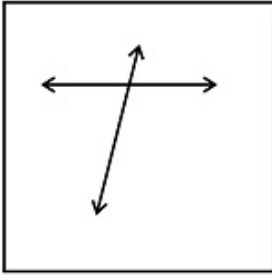
Status : Answered

Chosen Option : 4

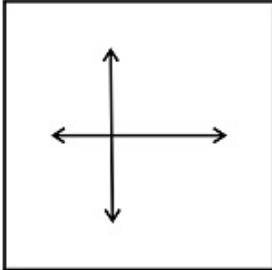
Q.7 दिए गए विकल्पों में से तीन एक निश्चित तरीके से समान हैं। हालाँकि, एक विकल्प अन्य तीन की तरह नहीं है। उस विकल्प का चयन करें जो अन्य से अलग है।

Ans

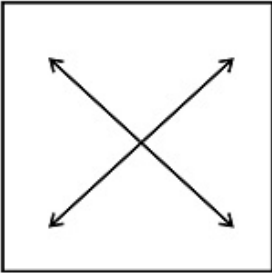
✗ 1.



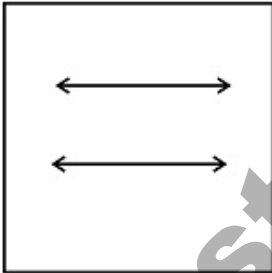
✗ 2.



✗ 3.



✓ 4.



Question ID : 1499863622
Status : Answered
Chosen Option : 4

Q.8 सबसे बड़े से छोटे क्षेत्र में निम्नलिखित को व्यवस्थित करें:

- 1) उत्तर प्रदेश
- 2) गोवा
- 3) मध्य प्रदेश
- 4) राजस्थान

Ans 1. 4132

2. 1234

3. 1324

4. 4231

Question ID : 1499863625

Status : Answered

Chosen Option : 1

Q.9 उस विकल्प का चयन करें जो उसी आधार पर तीसरी संख्या से संबंधित है जैसे दूसरी संख्या पहली संख्या से संबंधित है।

5 : 36 :: 12 : ?

Ans 1. 180

2. 125

3. 169

4. 144

Question ID : 1499863621

Status : Answered

Chosen Option : 3

Q.10 कुछ समीकरण कुछ सिस्टम के आधार पर हल किए जाते हैं। समान का उपयोग करके, समीकरण को हल करें जो सुलझाए नहीं गए हैं।

$$3 \times 4 \times 5 = 31625$$

$$4 \times 5 \times 6 = 42536$$

$$5 \times 6 \times 7 = 53649$$

$$6 \times 7 \times 8 = ?$$

Ans 1. 69336

2. 36498

3. 64964

4. 96636

Question ID : 1499863619

Status : Not Answered

Chosen Option : --

Q.11 नीचे दिए गए कथनों में I और II के दो निष्कर्ष लेबल किए गए हैं। यह मानते हुए कि कथनों में दी गई जानकारी सत्य है, भले ही वह वास्तविकता से अलग प्रतीत हों, निर्णय लें कि कौन-सा निष्कर्ष तार्किक रूप से दिया गया है और निश्चित रूप से कथनों में दी गई जानकारी का अनुसरण करता है।

उत्तर दीजिए:

- (A) यदि केवल निष्कर्ष I का अनुसरण करता है
(B) यदि केवल निष्कर्ष II का अनुसरण करता है
(C) यदि I या II अनुसरण करते हैं
(D) यदि I और II दोनों अनुसरण करते हैं

कथन: बैंगनी रंग में छोटी तरंगदैर्घ्य होता है।

निष्कर्ष 1: आकाश का रंग नीला है।

निष्कर्ष 2: इंद्रधनुष के निचले सिरे में रंग दिखाई देता है।

- Ans 1. C
 2. A
 3. D
 4. B

Question ID : 1499863614

Status : Not Answered

Chosen Option : --

Q.12 एक श्रृंखला दी गई है जिसमें एक पद लुप्त है। दिए गए विकल्पों में से सही विकल्प का चयन करें जो श्रृंखला को पूरा करेगा।
4, 10, 28, 82, ?

- Ans 1. 265
 2. 244
 3. 256
 4. 245

Question ID : 1499863617

Status : Not Answered

Chosen Option : --

Q.13 यदि A '+' का प्रतिनिधित्व करता है, K 'x' का प्रतिनिधित्व करता है, B '-' का प्रतिनिधित्व करता है, L '.' का प्रतिनिधित्व करता है,
तो $15 K 3 A 57 L 18 B 9 = P$
5P का मूल्य क्या है?

- Ans 1. 300
 2. 400
 3. 100
 4. 500

Question ID : 1499863618

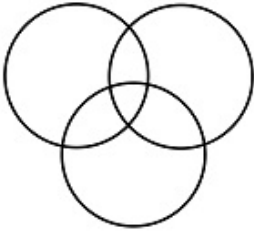
Status : Not Answered

Chosen Option : --

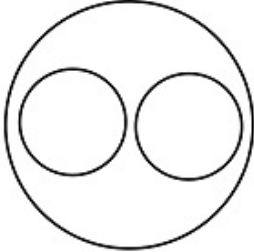
Q.14 दिए गए शब्दों में निम्नलिखित में से कौन सही संबंध दर्शाता है?
मुनाफ़ा, आय, अधिलाभ

Ans

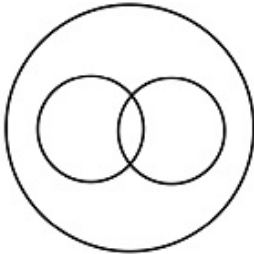
✗ 1.



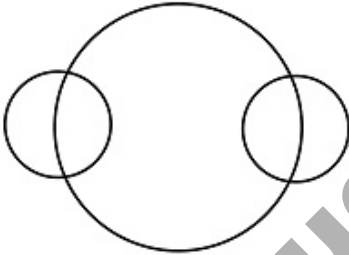
✓ 2.



✗ 3.



✗ 4.



Question ID : 1499863623

Status : Not Answered

Chosen Option : --

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Q.15 निम्नलिखित संख्या श्रृंखला में लुप्त संख्या ज्ञात करें।

10	4	3
3	5	?
4	6	5

- Ans
- 1.5
 - 2.8
 - 3.4
 - 4.15

Question ID : 1499863626

Status : Not Answered

Chosen Option : --

Section : General English

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Comprehension:

Read the following passage and answer the questions given after it.

We are all born milk drinkers. Babies' guts produce the enzyme lactase, which break down lactose, the sugar in cow's milk, into the simpler sugars – glucose and galactose. But for the majority of humans, production of the enzyme lactase plummets after weaning.

From a human perspective – no, to go further than that, from a mammalian perspective – the norm is to be **able to tolerate your producing lactase and become lactose intolerant,**" said Adam Fox, a consultant paediatric allergist at Guy's and St Thomas' hospitals, and one of the UK's leading food allergy experts. "Then you've got a small group of humans that have a mutation which means they maintain production of lactase into adulthood. Northern Europeans, the Masai [in east Africa], some Arab groups as well. But that's the exception, not the rule."

That schism between milk-drinkers and the rest - actually a series of independent genetic mutations appears to have occurred about 10,000 years ago, around the time humans were domesticating farm animals. For lactose-intolerant people, a glass of milk can induce bloating, stomach pains and diarrhoea. (Lactose intolerance should not be - though often is - certified with cow's milk allergy, an immune response to the proteins in cow's milk that affects around 1% of UK adults.)

Even in northern Europe, milk as we know it is a recent phenomenon. Fresh milk, left unrefrigerated, spoils quickly and can harbor a variety of deadly pathogens, including E Coli and tuberculosis. For most of history milk was either consumed within moments of milking processed as cheese or yoghurt. Few drank milk in its liquid form. "The Romans considered it a sign of barbarism," said Mark Kurlansky, author of Milk! A 10,000-Year FoodFracas.

"The only people who drank milk were people on farms, because they were the only ones who could get it fresh enough." Even then, cow's milk "as considered inferior to alternatives such as goat or donkey. In the 19th century, **"swill milk"** - so-called because cows were fed the **filthy runoff from inner-city breweries, turning their milk blue - was linked with thousands of infant deaths.** Only in the early 20th century, with the introduction of mandatory pasteurization - in which milk is heated to kill off any bacteria before bottling - did milk become safe enough for most people to drink regularly.)

SubQuestion No : 1**Q.1 What is this passage about?**

- Ans
- 1. How pasteurized milk cured lactose intolerance
 - 2. Milk and lactose intolerance
 - 3. Weaning and the plummeting enzyme lactase
 - 4. Why some adults develop milk intolerance

Question ID : 1499863634

Status : Answered

Chosen Option : 3

Comprehension:

Read the following passage and answer the questions given after it.

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SubQuestion No : 2

Q.2 According to the passage, 'Lactose intolerance' is _____.

- Ans
- 1. experience and suffering problems in the digestive system
 - 2. linked to discovery and propagation of plant milk
 - 3. Human body not being able to accept cow's milk allergy.
 - 4. to be able to tolerate your lactase secretion

Question ID : 1499863631

Status : Answered

Chosen Option : 3

Comprehension:

Read the following passage and answer the questions given after it.

We are all born milk drinkers. Babies' guts produce the enzyme lactase, which break down lactose, the sugar in cow's milk, into the simpler sugars – glucose and galactose. But for the majority of humans, production of the enzyme lactase plummets after weaning.

From a human perspective – no, to go further than that, from a mammalian perspective – the norm is to be **able to tolerate your producing lactase and become lactose intolerant,**" said Adam Fox, a consultant paediatric allergist at Guy's and St Thomas' hospitals, and one of the UK's leading food allergy experts. "Then you've got a small group of humans that have a mutation which means they maintain production of lactase into adulthood. Northern Europeans, the Masai [in east Africa], some Arab groups as well. But that's the exception, not the rule."

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SubQuestion No : 3

Q.3 From the understanding of the given passage, 'Most adults in India continue to have milk without suffering any of the issues outlined in the passage because _____.

- Ans
- 1. they maintain production of lactase into adulthood
 - 2. they have no other source of nutrients to nourish them
 - 3. genetic mutation has helped reduce lactase production
 - 4. they continue to live in farms and get fresh milk

Question ID : 1499863632

Status : Answered

Chosen Option : 4

Comprehension:

Read the following passage and answer the questions given after it.

We are all born milk drinkers. Babies' guts produce the enzyme lactase, which break down lactose, the sugar in cow's milk, into the simpler sugars – glucose and galactose. But for the majority of humans, production of the enzyme lactase plummets after weaning.

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SubQuestion No : 4

Q.4 The author points out that in the 19th century, swill milk was linked with thousands of infant deaths. Which ONE of the actions below would have, if familiar, been available and practicable for the people of that time, saved these children?

- Ans
- 1. Bringing up inner city breweries
 - 2. Freezing the milk to remove the pollutants
 - 3. Feeding the cows, uncontaminated healthy food.
 - 4. Treating lactose intolerance with medicines

Question ID : 1499863630

Status : Answered

Chosen Option : 3

Comprehension:

Read the following passage and answer the questions given after it.

We are all born milk drinkers. Babies' guts produce the enzyme lactase, which break down lactose, the sugar in cow's milk, into the simpler sugars – glucose and galactose. But for the majority of humans, production of the enzyme lactase plummets after weaning.

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SubQuestion No : 5

Q.5 According to the author in the passage, "More than 90% of adults in countries such as the UK, Sweden and Ireland can drink milk without suffering any ill effects" because

- Ans
- 1. they have a lot of dairy products such as cheese and Yoghurt.
 - 2. they always had pasteurized milk and avoided flesh milk
 - 3. these countries were farmland before they became sophisticated cities
 - 4. they have a history of domesticating farm animals

Question ID : **1499863633**
 Status : **Answered**
 Chosen Option : **3**

Q.6 Mitigators and Intensifiers act as which part of speech in a sentence?

- Ans
- 1. noun
 - 2. adjective
 - 3. adverb
 - 4. subject

Question ID : **1499863637**
 Status : **Answered**
 Chosen Option : **4**

Q.7 Select the most appropriate meaning of the given idiom.

Give someone the cold shoulder

- Ans
- 1. deny someone comforting clothes
 - 2. serve cold meat to someone
 - 3. ignore or show indifference
 - 4. bury someone in freezing cold

Question ID : 1499863677

Status : Answered

Chosen Option : 4

Q.8 Select the most appropriate ANTONYM of the given word.

Wild

- Ans
- 1. Ferocious
 - 2. Unmanaged
 - 3. Tamed
 - 4. Fierce

Question ID : 1499863671

Status : Answered

Chosen Option : 1

Q.9 In the following sentence some parts in BOLD letters. Choose the better of the two alternatives for ever such part and then choose the best combination as your answer.

Despite I had (A)/having (B) very little(A)/few (B) time, I succeeded in finishing (A)/ finish (B) that report before (A)/till(B) the end of January.

- Ans
- 1. ABAB
 - 2. ABBA
 - 3. AAAA
 - 4. BAAA

Question ID : 1499863645

Status : Answered

Chosen Option : 2

Q.10 In the statement given below, a part of the sentence is highlighted bold. Out of the four options which follow, choose the one which best replaces the highlighted phrase.

I overheard him saying something to me when I was quit.

- Ans
- 1. I was quite
 - 2. had about to quit
 - 3. had been quitting
 - 4. I was quiet

Question ID : 1499863681

Status : Answered

Chosen Option : 1

Q.11 Select the most appropriate meaning of the given idiom.

(To put one's) cards on the table

- Ans
- 1. to deal a game of cards
 - 2. to accept defeat
 - 3. to be able to continue
 - 4. to be honest

Question ID : 1499863678
Status : Answered
Chosen Option : 1

Q.12 Choose the most appropriate combination of preposition in the given sentences.

- I. Ram is angry _____ Shyam's bad conduct.
II. Ram is angry _____ Shyam.
III. He is angry with me _____ my remark.

- Ans
- 1. with-for-at
 - 2. at-with-with
 - 3. at-with-for
 - 4. for-with-at

Question ID : 1499863640
Status : Answered
Chosen Option : 1

Q.13 In the following question a sentence is given in Direct/Indirect speech. Out of the four alternatives choose the one which best expresses the sentence in Indirect/Direct Speech.

Priya said, "The book is very interesting."

- Ans
- 1. Priya said that the book was very interesting.
 - 2. Priya said that the book was being very interesting
 - 3. Priya said that the book has been very interesting.
 - 4. Priya said that the book is very interesting.

Question ID : 1499863653
Status : Answered
Chosen Option : 1

Q.14 Select the most appropriate antonym of the given word.
LIBERTY

- Ans
- 1. reservation
 - 2. slavery
 - 3. autonomy
 - 4. freedom

Question ID : 1499863675
Status : Not Answered
Chosen Option : --

Q.15 In the statement given below, a part of the sentence is highlighted bold. Out of the four options which follow, choose the one which best replaces the highlighted phrase.

The teacher told us that the prize would be present the next day.

- Ans
- 1. shall be presented tomorrow
 - 2. would be presented the next day
 - 3. would have been presented the next day
 - 4. should be presented tomorrow

Question ID : 1499863680
Status : Answered
Chosen Option : 4

Q.16 In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase.

Organisms capable of living on land and water.

- Ans
- 1. Parochial
 - 2. Amphibian
 - 3. Botanist
 - 4. Aquatic

Question ID : 1499863669
Status : Not Answered
Chosen Option : --

Q.17 In the following questions, four sentences are given which may or may not be grammatically correct. From the given options, choose the grammatically incorrect sentence.

- A. There is also a push to recruit more rangers, in order to tackle poaching.
- B. The Trident Underwater Drone is designed and manufactured by California-based OpenROV.
- C. Hibernation gets a lot most interesting in the animal kingdom.
- D. Humans mostly work by day; rats mostly work by night.

- Ans
- 1. B
 - 2. A
 - 3. D
 - 4. C

Question ID : 1499863687
Status : Answered
Chosen Option : 3

Q.18 In the following questions, four sentences are given which may or may not be grammatically correct. From the given options, choose the grammatically incorrect sentence/sentences.

- A. Twenty to thirty percent of the world's urban water supply is lost to leaking each year.
- B. The passion she felt for the ambitious young man proved to be a weakness.
- C. Schools and health centres are built from brick, slathered in concrete, and fitted with glass windows.
- D. Tea is the second most popular drink in the world after water.

- Ans
- 1. B
 - 2. D
 - 3. A
 - 4. C

Question ID : 1499863685
Status : Answered
Chosen Option : 1

Q.19 Choose the option that is the passive form of the sentence.

A campus fire in California caused the death of at least twenty-three persons.

- Ans
- 1. The death of at least twenty three persons will be caused in a campus fire in California.
 - 2. At least twenty-three person's death was caused in a campus fire in California.
 - 3. The death of at least twenty three persons was caused by a campus fire in California.
 - 4. The death of at least twenty three persons caused a campus fire in California.

Question ID : 1499863662
Status : Answered
Chosen Option : 4

Q.20 In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase.

One who is hostile and aggressive

- Ans
- 1. Legendary
 - 2. Noisome
 - 3. Sedentary
 - 4. Belligerent

Question ID : 1499863668
Status : Not Answered
Chosen Option : --

Q.21 In the following question a sentence is given in Direct/Indirect speech. Out of the four alternatives choose the one which best expresses the sentence in Indirect/Direct Speech.

He said, "Why didn't you send your application to me?"

- Ans
- 1. He inquired why did I not send my application to him
 - 2. He inquired why I / he had not sent my / his application to him
 - 3. He inquired why I did not send my application to him
 - 4. He inquired why had I not sent my application to him

Question ID : 1499863655
Status : Answered
Chosen Option : 1

Q.22 A sentence with an underlined word is given below. Select the most appropriate SYNONYM for the underlined word from the given options.

The statesman extolled the ambassador who single-handedly negotiated the peace treaty.

- Ans
- 1. Scolded
 - 2. Abused
 - 3. Praised
 - 4. Punished

Question ID : 1499863663
Status : Not Answered
Chosen Option : --

Q.23 In the following questions, four sentences are given which may or may not be grammatically correct. From the given options, choose the grammatically incorrect sentence/sentences.

- A. The responsive traffic lights have reduced vehicle transit time along the route.
- B. The number of commercial drones may quadruple in U.S. skies by 2022.
- C. The Japanese, it seems, are becoming more interested in watching whales than eating them.
- D. Climate change is creating both winners and losers for whales.

- Ans
- 1. B and C
 - 2. A, C and D
 - 3. All A,B,C and D
 - 4. A and B

Question ID : 1499863689
Status : Answered
Chosen Option : 3

Q.24 Select the most appropriate meaning of the given idiom.

Greek to me

- Ans 1. incomprehensible
 2. inevitable
 3. incredible
 4. intangible

Question ID : 1499863676
Status : Not Answered
Chosen Option : --

Q.25 In the following question a sentence is given in Direct/Indirect speech. Out of the four alternatives choose the one which best expresses the sentence in Indirect/Direct Speech.

“What did you see at the South Pole?” Ashok asked Anil.

- Ans 1. Ashok asked Anil what did he see at the South Pole
 2. Ashok asked Anil about what he had seen at the South Pole
 3. Ashok asked Anil that he saw anything at the South Pole
 4. Ashok asked Anil if he had seen something at the South Pole

Question ID : 1499863654
Status : Answered
Chosen Option : 1

Q.26 Identify the segment in the sentence which contains the grammatical error from the given options. If there is no error, mark your answer as 'No error'.

No sooner the teacher enter the classroom than the students stood up.

- Ans 1. No error
 2. teacher enter the classroom
 3. than the students stood up.
 4. No sooner the

Question ID : 1499863683
Status : Answered
Chosen Option : 4

Q.27 Select the correct active form of the given sentence.

By whom were you taught Mathematics?

- Ans 1. Who teach you Mathematics?
 2. Who teaching you Mathematics?
 3. Who taught you Mathematics?
 4. Whom are you teaching Mathematics?

Question ID : 1499863659
Status : Answered
Chosen Option : 3

Q.28 Which of the following is a non-grading adverb of degree?

- Ans
- 1. extremely
 - 2. very
 - 3. utterly
 - 4. rather

Question ID : 1499863636
Status : Answered
Chosen Option : 1

Q.29 In the following sentence some parts in BOLD letters. Choose the better of the two alternatives for ever such part and then choose the best combination as your answer.

(Peering(A)/Having peered(B)) at each interview subject, the researchers checked for discoloration.

One interview subject shrieked upon (hearing(A)/having heard(B)) the interviewer's comment about "teeth as yellow as sunflowers."

(Refusing(A)/Having refused(B)) to open her mouth, she glared silently at the interviewer.

With the market research on Green Teeth (completed(A)/having been completed(B)), the team tabulated the results.

- Ans
- 1. AAAB
 - 2. AABB
 - 3. BBAA
 - 4. ABAB

Question ID : 1499863652
Status : Not Answered
Chosen Option : --

Q.30 Select the correct active form of the given sentence.

He was given a book for his birthday.

- Ans
- 1. A book was given to him for his birthday.
 - 2. She has gave him a book for his birthday.
 - 3. She will be giving him a book for his birthday.
 - 4. She give a book to him for his birthday.

Question ID : 1499863658
Status : Answered
Chosen Option : 4

Q.31 In the following sentence some parts in **BOLD** letters. Choose the better of the two alternatives for ever such part and then choose the best combination as your answer.

Resisting the urge to barf, Truffle ate (**bad(A)**/**badly(B)**), according to his doggie standards.

Truffle, who didn't feel (**good(A)**/**well(B)**), barked quite a bit that day.

Tired of the din, his owner confiscated the kibble and screamed, "(**Bad(A)**/**Badly(B)**) dog!

- Ans
- 1. AAB
 - 2. BAB
 - 3. BBA
 - 4. BBB

Question ID : 1499863647

Status : Not Answered

Chosen Option : --

Q.32 Select the most appropriate **SYNONYM** of the given word.

Amuse

- Ans
- 1. entice
 - 2. engage
 - 3. divert
 - 4. please

Question ID : 1499863667

Status : Not Answered

Chosen Option : --

Q.33 Choose the most appropriate combination of **preposition** in the given sentences.

I. I cannot compete _____ the young man.

II. They compete _____ a prize.

- Ans
- 1. for-for
 - 2. with-with
 - 3. for-with
 - 4. with-for

Question ID : 1499863642

Status : Answered

Chosen Option : 4

Q.34 Identify the segment in the sentence which contains the grammatical error from the given options. If there is no error, mark your answer as 'No error'.

It is us who are responsible for maintaining the law and order situation in the city.

- Ans
- 1. for maintaining the law and order
 - 2. No error
 - 3. It is us who are responsible
 - 4. situation in the city.

Question ID : 1499863684
Status : Answered
Chosen Option : 1

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

Nascent

- Ans
- 1. Hiatus
 - 2. Developed
 - 3. Damp
 - 4. Denial

Question ID : 1499863674
Status : Not Answered
Chosen Option : --

Q.36 Choose the option that is the active form of the sentence.

It was decided by the members that the report would be placed before the Chairman for his comments.

- Ans
- 1. The members decided to place the report before the Chairman for his comments.
 - 2. The Chairman's comments were to be placed on the report of the members.
 - 3. The Chairman decided to place the report before the members.
 - 4. Did the members decide to place the report before the Chairman?

Question ID : 1499863661
Status : Answered
Chosen Option : 2

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Q.37 In the following sentence some parts in **BOLD** letters. Choose the better of the two alternatives for ever such part and then choose the best combination as your answer.

Marty is such a fanatic about seeds that she once counted all the seeds on a **strawberry** before she ate it; there **(are(A)/were(B))** over 100 on it. Marty was very critical of the cuisine, even though she **(knows(A)/knew(B))** almost nothing about cooking. Marty at the time was following a vegetarian diet, which **(does(A)/did(B))** not include meat.

- Ans
- 1. AAB
 - 2. BBB
 - 3. BAB
 - 4. BBA

Question ID : 1499863651
Status : Not Answered
Chosen Option : --

Q.38 Select the most appropriate **SYNONYM** of the given word.

Overlook

- Ans
- 1. sanction
 - 2. punish
 - 3. ignore
 - 4. hinder

Question ID : 1499863666
Status : Answered
Chosen Option : 1

Q.39 In the following sentence some parts in **BOLD** letters. Choose the better of the two alternatives for ever such part and then choose the best combination as your answer.

It seems **(A)/is seeming (B)** to me that when she **will(A)/nothing required(B)** comes **(A)/ come (B)** we **nothing required (A)/ will (B)** have to talk **nothing required (A)/ about (B)** it together.

- Ans
- 1. AABAA
 - 2. BBAAB
 - 3. AABBB
 - 4. BBBA

Question ID : 1499863646
Status : Not Answered
Chosen Option : --

Q.40 Select the most appropriate SYNONYM of the given word.

Export

- Ans 1. Transmit
 2. Purport
 3. Receive
 4. Support

Question ID : 1499863664
Status : Answered
Chosen Option : 1

Q.41 A sentence with an underlined word is given below. Select the most appropriate ANTONYM for the underlined word from the given options.

The disease that once claimed millions of lives has now been eradicated.

- Ans 1. Removed
 2. Thrown
 3. Eliminated
 4. Preserved

Question ID : 1499863672
Status : Not Answered
Chosen Option : --

Q.42 In the following question a sentence is given in Direct/Indirect speech. Out of the four alternatives choose the one which best expresses the sentence in Indirect/Direct Speech.

The little boy said, "I wish it rains hard so that I don't have to go to school."

- Ans 1. The little boy wished it rained hard so that he would not go to school.
 2. The little boy wished it rained hard so that he would not have to go to school.
 3. The little boy wished it rained hard so that he will not have to go to school.
 4. The little boy earnestly wished that it rained hard so that he would not have to go to school.

Question ID : 1499863657
Status : Answered
Chosen Option : 1

Q.43 Choose the most appropriate combination of preposition in the given sentences.

- I. He arrived _____ the railway colony.
II. He arrived _____ India.

- Ans 1. in-at
 2. at-at
 3. at-in
 4. in-in

Question ID : 1499863641
Status : Answered
Chosen Option : 3

Q.44 Select the correct passive form of the given sentence.

They opened a new mall nearby last month.

- Ans
- 1. A new mall can be open nearby last month.
 - 2. A new mall was opened nearby last month.
 - 3. A new mall will be opened nearby last month.
 - 4. Nearby a new mall is opened last month.

Question ID : 1499863660
Status : Answered
Chosen Option : 2

Q.45 In the following question a sentence is given in Direct/Indirect speech. Out of the four alternatives choose the one which best expresses the sentence in Indirect/Direct Speech.

Ram asked Krishna, "Where are you going today?"

- Ans
- 1. Ram asked Krishna as to where he was going on the previous day
 - 2. Ram asked Krishna where was he going the next day
 - 3. Ram asked Krishna where was he going the day before
 - 4. Ram asked Krishna where he was going that day

Question ID : 1499863656
Status : Answered
Chosen Option : 4

Q.46 What can adverbs of indefinite frequency do that adverbs of definite frequency cannot?

- Ans
- 1. modify prepositional phrases
 - 2. modify adverbs
 - 3. modify adjectives
 - 4. modify verbs

Question ID : 1499863639
Status : Answered
Chosen Option : 1

Q.47 What is the adverb of degree used in the sentence below?

"I will reluctantly do it, but it may take a lot of time, so I will start rather immediately."

- Ans
- 1. rather
 - 2. immediately
 - 3. a lot
 - 4. reluctantly

Question ID : 1499863635
Status : Answered
Chosen Option : 2

Q.48 In the following questions, four sentences are given which may or may not be grammatically correct. From the given options, choose the grammatically incorrect sentence.

- A. The plant is 25 percent more efficient than the previous waste-incineration facility.
- B. In the wilder of Iran, the protection of species can be a matter of life or death
- C. The idea of burning garbage has its critics.
- D. The project was aimed at reducing food-packaging waste for astronauts.

- Ans
- 1. D
 - 2. B
 - 3. C
 - 4. A

Question ID : 1499863686

Status : Not Attempted and Marked For Review

Chosen Option : --

Q.49 Identify the segment in the sentence which contains the grammatical error from the given options. If there is no error, mark your answer as 'No error'.

She brings me flowers always when she comes to visit me.

- Ans
- 1. always when she
 - 2. comes to visit me.
 - 3. She brings me flowers
 - 4. No error

Question ID : 1499863682

Status : Answered

Chosen Option : 2

Q.50 Select the most appropriate meaning of the given idiom.

To be the Devil's advocate

- Ans
- 1. to represent an accused in a murder trial
 - 2. to present an argument in favor of a well-known evil man
 - 3. to represent the devil as an advocate in witch trials
 - 4. to pretend to be against an idea or plan that a lot of people support

Question ID : 1499863679

Status : Not Answered

Chosen Option : --

Q.51 In the following questions, four sentences are given which may or may not be grammatically correct. From the given options, choose the grammatically incorrect sentence/sentences.

- A. North American ponds change drastically from summer to winter.
- B. A lot of people who work long hours opt to adopt a cat instead of a dog.
- C. Polar bears are an endangered species in Russia, and the federal government has refused to issue licenses to shoot them.
- D. More than any other city creature, rats inspire fear and disgust.

- Ans 1. All the given options are correct
2. B
3. C
4. A

Question ID : 1499863688
Status : Not Answered
Chosen Option : --

Q.52 Select the most appropriate SYNONYM of the given word.

Expand

- Ans 1. Augment
2. Shrink
3. Condense
4. Contract

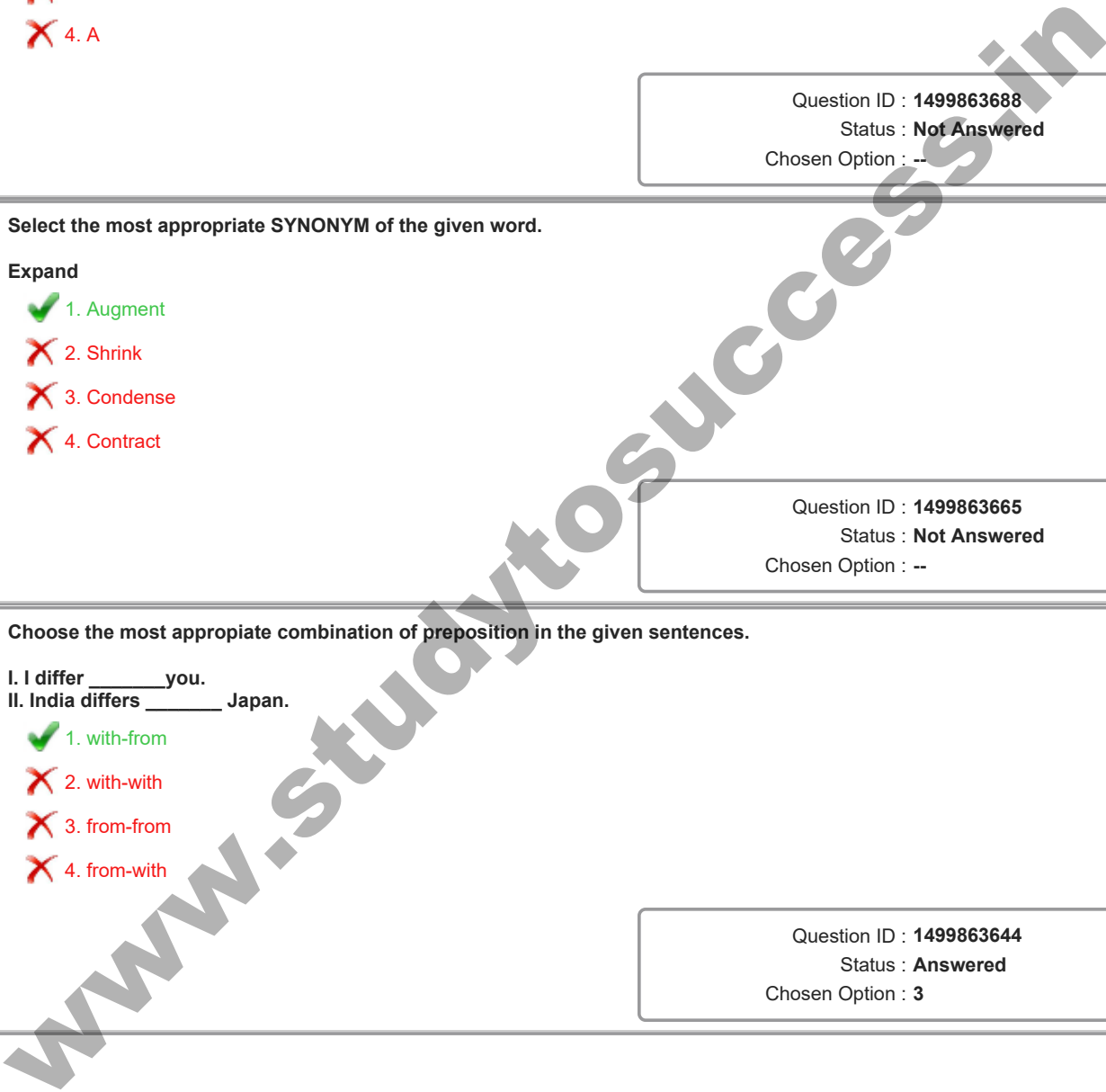
Question ID : 1499863665
Status : Not Answered
Chosen Option : --

Q.53 Choose the most appropriate combination of preposition in the given sentences.

- I. I differ _____ you.
- II. India differs _____ Japan.

- Ans 1. with-from
2. with-with
3. from-from
4. from-with

Question ID : 1499863644
Status : Answered
Chosen Option : 3



Q.54 A sentence with an underlined word is given below. Select the most appropriate ANTONYM for the underlined word from the given options.

As you step into the air-conditioned office, there is an abrupt change in temperature.

- Ans
- 1. Immediate
 - 2. Quick
 - 3. Gradual
 - 4. Sudden

Question ID : 1499863673
Status : Answered
Chosen Option : 4

Q.55 Fill in the blank with the word given in the bracket using the correct prefix out of the given four options.

The manufacturers received thousands of complaints from _____ (satisfied) customers.

- Ans
- 1. dis
 - 2. al
 - 3. in
 - 4. im

Question ID : 1499863649
Status : Answered
Chosen Option : 2

Q.56 Choose the most appropriate combination of preposition in the given sentences.

- I. He died _____ cholera.
II. He died _____ overwork.

- Ans
- 1. of-from
 - 2. of-of
 - 3. from-of
 - 4. from-from

Question ID : 1499863643
Status : Answered
Chosen Option : 4

Q.57 Fill in the blanks with grammatically correct option.

When Lulu asked to see _____ wedding pictures, she didn't expect Annie to put on _____ twelve-hour slide show.

- Ans
- 1. a, a
 - 2. the, the
 - 3. the, a
 - 4. an, a

Question ID : 1499863648
Status : Answered
Chosen Option : 3

Q.58 Identify the intensifier in the following sentence.

“Almost everything in the list was unbelievably expensive to buy.”

- Ans
- 1. buy
 - 2. almost
 - 3. unbelievably
 - 4. expensive

Question ID : 1499863638

Status : Not Answered

Chosen Option : --

Q.59 Fill in the blanks with grammatically correct option.

There's a mirror _____ the sink.

- Ans
- 1. above
 - 2. besides
 - 3. off
 - 4. into

Question ID : 1499863650

Status : Not Answered

Chosen Option : --

Q.60 Match the words with their meaning.

a. Hapless	1. Unfortunate
b. Impuissant	2. Mundane
c. Quotidian	3. Helpless

- Ans
- 1. a - 2, b - 3, c - 1
 - 2. a - 3, b - 1, c - 2
 - 3. a - 1, b - 3, c - 2
 - 4. a - 2, b - 1, c - 3

Question ID : 1499863670

Status : Not Answered

Chosen Option : --