BHEL ET

Previous Year Paper

(Electrical) 23 Aug, 2023

BHEL Exam 23rd 24th Aug 2023

Participant ID	
Participant Name	
Test Center Name	
Test Date	23/08/2023
Test Time	2:00 PM - 4:30 PM
Subject	Engineer Trainee Electrical

Section : **Question on Subject/Discipline**

Q.1 In an R-L series circuit, the source DC voltage is V. Find the current at time $t = \frac{L}{R}$ sec.

Ans

✗ 1. $.865 \frac{V}{R}$ A

✗ 2. $.982 \frac{V}{R}$ A

✔ 3. $.632 \frac{V}{R}$ A

✗ 4. $.950 \frac{V}{R}$ A

Question ID : **630680304252**
Option 1 ID : **6306801183570**
Option 2 ID : **6306801183572**
Option 3 ID : **6306801183569**
Option 4 ID : **6306801183571**
Status : **Answered**
Chosen Option : **3**

Q.2 The power input to a 3-phase induction motor is 50 kW. Total losses in the stator are 2 kW. Find the mechanical power developed if the motor is running with a slip of 5%.

Ans ✗ 1. 41.3 kW

✗ 2. 43.5 kW

✗ 3. 47.2 kW

✔ 4. 45.6 kW

Question ID : **630680304296**
Option 1 ID : **6306801183745**
Option 2 ID : **6306801183746**
Option 3 ID : **6306801183748**
Option 4 ID : **6306801183747**
Status : **Answered**
Chosen Option : **4**

Q.3
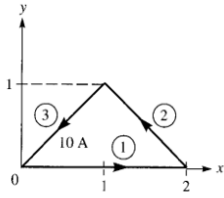
The conducting triangular loop in this figure carries a current of 10 A. Find the magnetic field intensity (H) at (0, 0, 5) due to side 1 of the loop.

Ans

✗ 1. $H = -\dfrac{1}{\pi\sqrt{19}}\, a_y\ \text{mA/m}$

✗ 2. $H = -\dfrac{1}{\pi\sqrt{27}}\, a_y\ \text{mA/m}$

✗ 3. $H = -\dfrac{1}{\pi\sqrt{23}}\, a_y\ \text{mA/m}$

✔ 4. $H = -\dfrac{1}{\pi\sqrt{29}}\, a_y\ \text{mA/m}$

Question ID : **630680304264**
Option 1 ID : **6306801183620**
Option 2 ID : **6306801183618**
Option 3 ID : **6306801183619**
Option 4 ID : **6306801183617**
Status : **Answered**
Chosen Option : **3**

Q.4 A 500 V shunt motor has armature resistance of .8 Ω and field resistance of 200 Ω. Calculate the back EMF when the output is 8 kW at 80% efficiency.
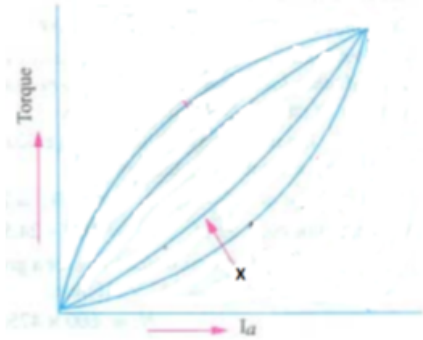
Ans

✗ 1. 448.6 V

✗ 2. 425 V

✗ 3. 465.8 V

✔ 4. 486 V

Question ID : **630680304290**
Option 1 ID : **6306801183722**
Option 2 ID : **6306801183721**
Option 3 ID : **6306801183723**
Option 4 ID : **6306801183724**
Status : **Answered**
Chosen Option : **3**

Q.5

The line marked as x in the figure is torque–armature characteristics of:

Ans
✗ 1. an SC shunt motor

✗ 2. a DC series motor

✔ 3. a DC cumulative compound motor

✗ 4. a DC differential compound motor

Question ID : **630680304292**
Option 1 ID : **6306801183730**
Option 2 ID : **6306801183729**
Option 3 ID : **6306801183732**
Option 4 ID : **6306801183731**
Status : **Answered**
Chosen Option : **3**

Q.6 Magnetic field intensity (dH) produced at a point P by the differential current element I dl is given by:

(The angle between the element and the line joining P is α and the distance between P and the element is R)

Ans
✗ 1. $dH = \dfrac{I\,dl\,\sin\alpha}{R^2}$

✔ 2. $dH = \dfrac{I\,dl\,\sin\alpha}{4\pi R^2}$

✗ 3. $dH = \dfrac{I\,dl\,\sin\alpha}{2\pi R^2}$

✗ 4. $dH = \dfrac{I\,dl\,\sin\alpha}{4\pi^2 R^2}$

Question ID : **630680304263**
Option 1 ID : **6306801183613**
Option 2 ID : **6306801183615**
Option 3 ID : **6306801183614**
Option 4 ID : **6306801183616**
Status : **Answered**
Chosen Option : **1**

Q.7 What type of synchronous machine produces reactive power and acts as a shunt capacitor?

Ans
✗ 1. Under excited

✗ 2. Critically excited

✗ 3. Half excited

✓ 4. Over excited

Question ID : **630680304302**
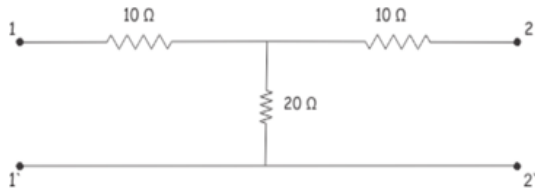Option 1 ID : **6306801183771**
Option 2 ID : **6306801183770**
Option 3 ID : **6306801183772**
Option 4 ID : **6306801183769**
Status : **Answered**
Chosen Option : **4**

Q.8

Find the Z parameters (Z_{11}, Z_{12}, Z_{21}, Z_{22}, respectively) for the above network.

Ans
✗ 1. $40\ \Omega$, $20\ \Omega$, $20\ \Omega$, $40\ \Omega$

✗ 2. $40\ \Omega$, $30\ \Omega$, $30\ \Omega$, $40\ \Omega$

✓ 3. $30\ \Omega$, $20\ \Omega$, $20\ \Omega$, $30\ \Omega$

✗ 4. $30\ \Omega$, $30\ \Omega$, $30\ \Omega$, $30\ \Omega$

Question ID : **630680304255**
Option 1 ID : **6306801183581**
Option 2 ID : **6306801183582**
Option 3 ID : **6306801183584**
Option 4 ID : **6306801183583**
Status : **Answered**
Chosen Option : **3**

Q.9 In case of overhead lines for the same resistance, the diameter of aluminium conductor is about _____ times the diameter of copper conductor.

Ans
✗ 1. 4.26

✗ 2. 3.26

✓ 3. 1.26

✗ 4. 2.26

Question ID : **630680304233**
Option 1 ID : **6306801183496**
Option 2 ID : **6306801183495**
Option 3 ID : **6306801183493**
Option 4 ID : **6306801183494**
Status : **Answered**
Chosen Option : **3**

Q.10 A certain JFET has an I_{GSS} of -2 nA for $V_{GS} = -20$ V. Determine the input resistance.

Ans

✗ 1. 1000 MΩ

✗ 2. 10000 kΩ

✓ 3. 10000 MΩ

✗ 4. 1000 kΩ

Question ID : **630680304243**
Option 1 ID : **6306801183535**
Option 2 ID : **6306801183534**
Option 3 ID : **6306801183536**
Option 4 ID : **6306801183533**
Status : **Answered**
Chosen Option : **3**

Q.11 Inter-base resistance of UJT is of the order of _____.

Ans

✓ 1. 5 to 10 kΩ

✗ 2. 50 to 100 kΩ

✗ 3. 500 to 1000 Ω

✗ 4. 50 to 100 Ω

Question ID : **630680304246**
Option 1 ID : **6306801183547**
Option 2 ID : **6306801183548**
Option 3 ID : **6306801183546**
Option 4 ID : **6306801183545**
Status : **Answered**
Chosen Option : **2**

Q.12 Which of the following is NOT a valid advantage of single bus bar system?

Ans

✓ 1. Very low fault currents

✗ 2. Low cost

✗ 3. Simple operation

✗ 4. Less maintenance

Question ID : **630680304235**
Option 1 ID : **6306801183504**
Option 2 ID : **6306801183501**
Option 3 ID : **6306801183503**
Option 4 ID : **6306801183502**
Status : **Answered**
Chosen Option : **1**

Q.13 For a Linear Time Invariant (LTI) system, in the absence of the input, the output tends towards zero irrespective of initial conditions. This type of stability is called:

Ans
- ✔ 1. asymptotic stability
- ✗ 2. selective stability
- ✗ 3. notion stability
- ✗ 4. relative stability

Question ID : **630680304286**
Option 1 ID : **6306801183708**
Option 2 ID : **6306801183706**
Option 3 ID : **6306801183707**
Option 4 ID : **6306801183705**
Status : **Answered**
Chosen Option : **1**

Q.14 A half-wave rectifier using silicon diode has a secondary EMF of 14.14 V (RMS) with a resistance of 0.15 Ω. The diode has a forward resistance of 0.05 Ω and a threshold voltage of 0.7 V. If the load resistance is 8 Ω, determine the efficiency.

Ans
- ✗ 1. 40.6%
- ✔ 2. 39.6%
- ✗ 3. 33.83%
- ✗ 4. 32.48%

Question ID : **630680304307**
Option 1 ID : **6306801183792**
Option 2 ID : **6306801183791**
Option 3 ID : **6306801183790**
Option 4 ID : **6306801183789**
Status : **Answered**
Chosen Option : **3**

Q.15 In a bode plot, if the value of the phase at gain crossover frequency is (−125°), then phase margin of system is _____.

Ans
- ✔ 1. 55°
- ✗ 2. −55°
- ✗ 3. −125°
- ✗ 4. 125°

Question ID : **630680304225**
Option 1 ID : **6306801183464**
Option 2 ID : **6306801183463**
Option 3 ID : **6306801183461**
Option 4 ID : **6306801183462**
Status : **Answered**
Chosen Option : **1**

Q.16 Which of the following theorems states that every square matrix A satisfies its own characteristic equation?

Ans

✗ 1. Parseval's theorem

✗ 2. Lyapunov theorems

✗ 3. Shannon's theorem

✔ 4. Cayley–Hamilton theorem

Question ID : **630680304285**
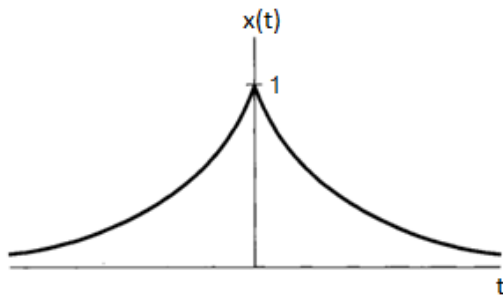Option 1 ID : **6306801183704**
Option 2 ID : **6306801183703**
Option 3 ID : **6306801183702**
Option 4 ID : **6306801183701**
Status : **Answered**
Chosen Option : **4**

Q.17

Fourier transform of the above signal $x(t) = e^{-a|t|}$ is:

Ans

✗ 1. $X(j\omega) = \dfrac{2a}{a + \omega}$

✔ 2. $X(j\omega) = \dfrac{2a}{a^2 + \omega^2}$

✗ 3. $X(j\omega) = \dfrac{a}{a - j\omega}$

✗ 4. $X(j\omega) = \dfrac{a}{a + j\omega}$

Question ID : **630680304272**
Option 1 ID : **6306801183651**
Option 2 ID : **6306801183652**
Option 3 ID : **6306801183649**
Option 4 ID : **6306801183650**
Status : **Answered**
Chosen Option : **2**

Q.18 If poles are more than zeros in G(s), then the number of root locus branches is equal to the:

Ans ✗ 1. number of zeroes

✔ 2. number of poles

✗ 3. difference between the number of poles and zeroes

✗ 4. sum of the number of poles and zeroes

Q.19
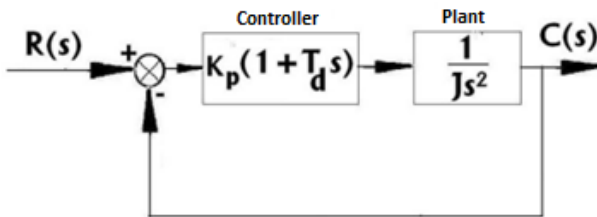
What will be the natural frequency (ω_n) for the above controller?

Ans

✗ 1. $\omega_n = \sqrt{\dfrac{1}{J\,K_p}}$

✔ 2. $\omega_n = \sqrt{\dfrac{K_p}{J}}$

✗ 3. $\omega_n = \sqrt{J K_p}$

✗ 4. $\omega_n = \sqrt{\dfrac{J}{K_p}}$

Q.20 If the voltage to be handled is _____, then switchgear equipment is installed outdoor.

Ans
✗ 1. below 33 kV

✗ 2. beyond 132 kV

✓ 3. beyond 66 kV

✗ 4. below 11 kV

Question ID : **630680304236**
Option 1 ID : **6306801183507**
Option 2 ID : **6306801183505**
Option 3 ID : **6306801183506**
Option 4 ID : **6306801183508**
Status : **Answered**
Chosen Option : **2**

Q.21 What will be the effect of increasing load of a synchronous motor while running with normal excitation?

Ans
✗ 1. Increase in armature current and increase in power factor.

✓ 2. Increase in armature current and decrease in power factor.

✗ 3. Decrease in armature current and decrease in power factor.

✗ 4. Decrease in armature current and increase in power factor.

Question ID : **630680304299**
Option 1 ID : **6306801183757**
Option 2 ID : **6306801183759**
Option 3 ID : **6306801183760**
Option 4 ID : **6306801183758**
Status : **Answered**
Chosen Option : **2**

Q.22 Which of the following properties is NOT true for the curl?

Ans
✗ 1.
The divergence of the curl of a vector field vanishes, that is, $\nabla \cdot (\nabla \times A) = 0$

✗ 2. The curl of a vector field is another vector field.

✓ 3. The curl of a scalar field V, $(\nabla \times V)$, makes sense.

✗ 4.
The curl of the gradient of a scalar field vanishes, that is, $(\nabla \times \nabla V) = 0$

Question ID : **630680304262**
Option 1 ID : **6306801183611**
Option 2 ID : **6306801183609**
Option 3 ID : **6306801183610**
Option 4 ID : **6306801183612**
Status : **Answered**
Chosen Option : **4**

Q.23
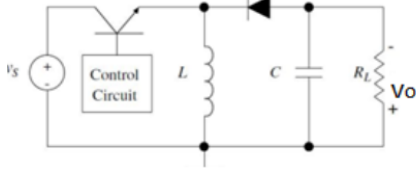
The voltage across the capacitor in this buck boost converter is V_C. The differential equation for this variable is:

Ans

✔ 1. $\dfrac{dV_C}{dt} = \dfrac{V_O}{CR_L}$

✘ 2. $\dfrac{dV_C}{dt} = \dfrac{V_S}{CR_L}$

✘ 3. $\dfrac{dV_C}{dt} = \dfrac{V_S}{C}$

✘ 4. $\dfrac{dV_C}{dt} = \dfrac{V_O}{R_L}$

Question ID : **630680304316**
Option 1 ID : **6306801183825**
Option 2 ID : **6306801183826**
Option 3 ID : **6306801183828**
Option 4 ID : **6306801183827**
Status : **Answered**
Chosen Option : **1**

Q.24

1. A system is said to be completely controllable if it is possible to transfer the system state from any initial state $X(t_O)$ to any desired state $X(t)$ in specified finite time by a control vector $u(t)$.

2. A system is said to be completely observable, if every state $X(t_O)$ can be completely identified by measurements of the outputs $y(t)$ over the time interval $(0 \le t \le \infty)$.

Read the above two statements and select the correct option.

Ans

✔ 1. Statement 1 is true and Statement 2 is false.

✘ 2. Both Statement 1 and Statement 2 are true.

✘ 3. Both Statement 1 and Statement 2 are false.

✘ 4. Statement 2 is true and Statement 1 is false.

Question ID : **630680304284**
Option 1 ID : **6306801183699**
Option 2 ID : **6306801183698**
Option 3 ID : **6306801183697**
Option 4 ID : **6306801183700**
Status : **Answered**
Chosen Option : **2**

Q.25 In cascade form realisation of FIR system, _____ adders and _____ multipliers are required for $(M-1)^{th}$ order FIR transfer function.

Ans

✗ 1. $(M+1); (M-1)$

✔ 2. $(M-1); M$

✗ 3. $(M-1); (M+1)$

✗ 4. $M; (M-1)$

Question ID : **630680304224**
Option 1 ID : **6306801183458**
Option 2 ID : **6306801183457**
Option 3 ID : **6306801183459**
Option 4 ID : **6306801183460**
Status : **Answered**
Chosen Option : **4**

Q.26 Study the given statements with reference to single phase induction motor and select the appropriate option.

1. Single-phase induction motor is a self-starting machine.

2. Double-revolving field theory can be used for performance analysis of 1-phase induction motors.

Ans

✗ 1. Statement 1 is true, but statement 2 is false.

✗ 2. Both the statements are true.

✗ 3. Both the statements are false.

✔ 4. Statement 1 is false, but statement 2 is true.

Question ID : **630680304231**
Option 1 ID : **6306801183487**
Option 2 ID : **6306801183485**
Option 3 ID : **6306801183486**
Option 4 ID : **6306801183488**
Status : **Answered**
Chosen Option : **4**

Q.27 Which of the following is NOT a method of computation of linear convolution?

Ans

✗ 1. Multiplication method

✗ 2. Graphical method

✗ 3. Tabulation method

✔ 4. Substitution method

Question ID : **630680304223**
Option 1 ID : **6306801183456**
Option 2 ID : **6306801183453**
Option 3 ID : **6306801183454**
Option 4 ID : **6306801183455**
Status : **Answered**
Chosen Option : **1**

Q.28 The layers in the middle layer of artificial neutral networks are known as:

Ans ✗ 1. security layers

✗ 2. control layers

✓ 3. hidden layers

✗ 4. process layers

Question ID : **630680304325**
Option 1 ID : **6306801183864**
Option 2 ID : **6306801183861**
Option 3 ID : **6306801183862**
Option 4 ID : **6306801183863**
Status : **Answered**
Chosen Option : **3**

Q.29 6 dB corresponds to a frequency response with magnitude equal to:

Ans ✓ 1. 2

✗ 2. 3

✗ 3. 1

✗ 4. 0

Question ID : **630680304274**
Option 1 ID : **6306801183659**
Option 2 ID : **6306801183660**
Option 3 ID : **6306801183658**
Option 4 ID : **6306801183657**
Status : **Answered**
Chosen Option : **1**

Q.30   1. Artificial neutral networks play an important role in speech recognition.

2. Artificial neutral networks are used for handwritten character recognition.

Read the above statements and select the correct option for artificial neutral networks.

Ans ✗ 1. Statement 1 is true and Statement 2 is false.

✗ 2. Both Statement 1 and Statement 2 are false.

✗ 3. Statement 2 is true and Statement 1 is false.

✓ 4. Both Statement 1 and Statement 2 are true.

Question ID : **630680304326**
Option 1 ID : **6306801183867**
Option 2 ID : **6306801183865**
Option 3 ID : **6306801183868**
Option 4 ID : **6306801183866**
Status : **Answered**
Chosen Option : **4**

Q.31 How many unconditional jump instructions are there in an 8051microcontroller?

Ans ✔ 1. Two

✗ 2. Four

✗ 3. Three

✗ 4. One

Question ID : **630680304251**
Option 1 ID : **6306801183566**
Option 2 ID : **6306801183568**
Option 3 ID : **6306801183567**
Option 4 ID : **6306801183565**
Status : **Answered**
Chosen Option : **3**

Q.32 The Laplace transform of $[e^{-at} \cos \omega_0 t] \, u(t)$ is:

Ans

✗ 1. $\dfrac{a}{(s+a)^2 + \omega_0^2}$

✗ 2. $\dfrac{s}{(s+a)^2 + \omega_0^2}$

✔ 3. $\dfrac{s+a}{(s+a)^2 + \omega_0^2}$

✗ 4. $\dfrac{\omega_0}{(s+a)^2 + \omega_0^2}$

Question ID : **630680304277**
Option 1 ID : **6306801183670**
Option 2 ID : **6306801183669**
Option 3 ID : **6306801183672**
Option 4 ID : **6306801183671**
Status : **Answered**
Chosen Option : **1**

Q.33 How many T-states can be there in a machine cycle in 8085 microprocessors?

Ans ✗ 1. 1 to 2

✔ 2. 3 to 6

✗ 3. 8 to 16

✗ 4. 16 to 32

Question ID : **630680304311**
Option 1 ID : **6306801183805**
Option 2 ID : **6306801183806**
Option 3 ID : **6306801183807**
Option 4 ID : **6306801183808**
Status : **Answered**
Chosen Option : **3**

Q.34 Which of the following flags is used for BCD arithmetic in the architecture of 8085 microprocessor?

Ans ✗ 1. Z flag

✔ 2. AC flag

✗ 3. S flag

✗ 4. CY flag

Question ID : **630680304312**
Option 1 ID : **6306801183812**
Option 2 ID : **6306801183809**
Option 3 ID : **6306801183811**
Option 4 ID : **6306801183810**
Status : **Answered**
Chosen Option : **1**

Q.35 The apparent power is the product of the _____ values of voltage and current.

Ans ✗ 1. peak to peak

✗ 2. average

✔ 3. RMS

✗ 4. peak

Question ID : **630680304210**
Option 1 ID : **6306801183404**
Option 2 ID : **6306801183403**
Option 3 ID : **6306801183401**
Option 4 ID : **6306801183402**
Status : **Answered**
Chosen Option : **3**

Q.36 Proper application of which of the following theorems to Coulomb's law results in Gauss's law?

Ans ✗ 1. Stokes's theorem

✔ 2. Divergence theorem

✗ 3. Helmholtz's theorem

✗ 4. Uniqueness theorem

Question ID : **630680304261**
Option 1 ID : **6306801183606**
Option 2 ID : **6306801183605**
Option 3 ID : **6306801183608**
Option 4 ID : **6306801183607**
Status : **Answered**
Chosen Option : **2**

Q.37 Network capacity in neural network is defined as:

Ans ✗ 1. the total number of nodes in the network.

✗ 2. the total number of inputs in the network.

✗ 3. the total number of disturbances in the network.

✓ 4.
the number of patterns that can be stored and recalled in the network.

Question ID : **630680304250**
Option 1 ID : **6306801183562**
Option 2 ID : **6306801183561**
Option 3 ID : **6306801183563**
Option 4 ID : **6306801183564**
Status : **Answered**
Chosen Option : **4**

Q.38 A cycloconverter is basically _____.

Ans ✗ 1. a controlled rectifier

✗ 2. a multilevel inverter

✗ 3. a DC-DC transformer

✓ 4. a one-stage frequency changer

Question ID : **630680304245**
Option 1 ID : **6306801183543**
Option 2 ID : **6306801183544**
Option 3 ID : **6306801183542**
Option 4 ID : **6306801183541**
Status : **Answered**
Chosen Option : **4**

Q.39 Which of the following methods gives only absolute stability of the system?

Ans ✗ 1. Bode plot

✗ 2. Root locus

✓ 3. R-H criteria

✗ 4. Nyquist plot

Question ID : **630680304227**
Option 1 ID : **6306801183472**
Option 2 ID : **6306801183469**
Option 3 ID : **6306801183470**
Option 4 ID : **6306801183471**
Status : **Answered**
Chosen Option : **1**

Q.40 A network has 40 number of total buses, of which 12 are voltage buses and 5 are generator buses. Find the size of the Jacobian matrix.

Ans ✗ 1. 46*46

✗ 2. 23*23

✔ 3. 63*63

✗ 4. 21*21

Question ID : **630680304306**
Option 1 ID : **6306801183787**
Option 2 ID : **6306801183786**
Option 3 ID : **6306801183788**
Option 4 ID : **6306801183785**
Status : **Answered**
Chosen Option : **2**

Q.41 An airline has characteristic impedance of 70 Ω and phase constant of 3 rad/m at 100 MHz. Calculate the capacitance per metre of the line.

Ans ✔ 1. 68.2 pF/m

✗ 2. 58.4 pF/m

✗ 3. 28.6 pF/m

✗ 4. 45.8 pF/m

Question ID : **630680304268**
Option 1 ID : **6306801183636**
Option 2 ID : **6306801183635**
Option 3 ID : **6306801183633**
Option 4 ID : **6306801183634**
Status : **Answered**
Chosen Option : **2**

Q.42 1. Power MOSFETs are majority carrier devices.

2. Power MOSFETs cause inferior conduction characteristics as the voltage rating is increased above 200 V.

Read the above statements and select the correct option.

Ans ✗ 1. Statement 2 is true and Statement 1 is false.

✔ 2. Both Statement 1 and Statement 2 are true.

✗ 3. Both Statement 1 and Statement 2 are false.

✗ 4. Statement 1 is true and Statement 2 is false.

Question ID : **630680304319**
Option 1 ID : **6306801183839**
Option 2 ID : **6306801183840**
Option 3 ID : **6306801183837**
Option 4 ID : **6306801183838**
Status : **Answered**
Chosen Option : **2**

Q.43 Calculate the number of stages for a multiplier or a cascaded circuit with frequency = 50 Hz, capacitance = 0.2 μF, voltage = 100 kV and current = 10 mA.

Ans ✗ 1. 30

✗ 2. 40

✗ 3. 20

✓ 4. 10

Question ID : **630680304323**
Option 1 ID : **6306801183855**
Option 2 ID : **6306801183856**
Option 3 ID : **6306801183854**
Option 4 ID : **6306801183853**
Status : **Answered**
Chosen Option : **4**

Q.44 The equivalent inductances of two coils of 3 H and 5 H in series aiding flux with mutual inductance of 2 H is:

Ans ✗ 1. 8 H

✓ 2. 12 H

✗ 3. 4 H

✗ 4. 10 H

Question ID : **630680304216**
Option 1 ID : **6306801183427**
Option 2 ID : **6306801183426**
Option 3 ID : **6306801183428**
Option 4 ID : **6306801183425**
Status : **Answered**
Chosen Option : **2**

Q.45 A discrete time real valued signal is said to be symmetric if:

Ans ✓ 1. $X(n) = X(-n)$

✗ 2. $X(n) = X(n - N)$

✗ 3. $X(n) = -X(n)$

✗ 4. $X(n) = X(n + N)$

Question ID : **630680304221**
Option 1 ID : **6306801183446**
Option 2 ID : **6306801183448**
Option 3 ID : **6306801183445**
Option 4 ID : **6306801183447**
Status : **Answered**
Chosen Option : **1**

Q.46 An N-channel E-MOSFET has the following parameters:

$I_{D(ON)} = 5$ mA at $V_{GS} = 10$ V and $V_{GS}(th) = 5$ V

Calculate its drain current for $V_{GS} = 8$ V.

Ans ✗ 1. 3.2 mA

✗ 2. 4 mA

✗ 3. 2.6 mA

✓ 4. 1.8 mA

Question ID : **630680304308**
Option 1 ID : **6306801183795**
Option 2 ID : **6306801183796**
Option 3 ID : **6306801183794**
Option 4 ID : **6306801183793**
Status : **Answered**
Chosen Option : **2**

Q.47 The discrete-time Fourier transform is always periodic in ω with period:

Ans ✗ 1. 4π

✓ 2. 2π

✗ 3. π

✗ 4. $\pi/2$

Question ID : **630680304273**
Option 1 ID : **6306801183656**
Option 2 ID : **6306801183655**
Option 3 ID : **6306801183654**
Option 4 ID : **6306801183653**
Status : **Answered**
Chosen Option : **2**

Q.48 In an 8085 processor, which bit of flag register is reserved for Auxiliary Carry flag?

Ans ✗ 1. Bit D7

✓ 2. Bit D4

✗ 3. Bit D6

✗ 4. Bit D2

Question ID : **630680304244**
Option 1 ID : **6306801183539**
Option 2 ID : **6306801183537**
Option 3 ID : **6306801183538**
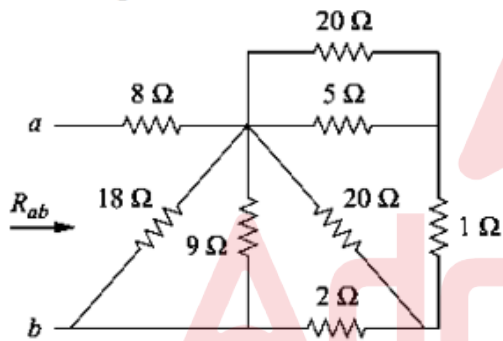Option 4 ID : **6306801183540**
Status : **Answered**
Chosen Option : **3**

Q.49 Laplace transform of a unit parabolic function occurring at t = 0 is given by _____.

Ans

✔ 1. $\dfrac{1}{s^3}$

✗ 2. 1

✗ 3. $\dfrac{1}{s^2}$

✗ 4. $\dfrac{1}{s}$

Q.50 Find 'R_{eq}' in the following circuit.

Ans ✗ 1. $18\ \Omega$

✔ 2. $11\ \Omega$

✗ 3. $26\ \Omega$

✗ 4. $14\ \Omega$

Q.51 In practice, the choice of a liquid dielectric for a given application is made primarily on the basis of its:

Ans

✗ 1. surface tension

✗ 2. solubility

✗ 3. viscosity

✓ 4. chemical stability

Question ID : **630680304322**
Option 1 ID : **6306801183850**
Option 2 ID : **6306801183851**
Option 3 ID : **6306801183852**
Option 4 ID : **6306801183849**
Status : **Answered**
Chosen Option : **2**

Q.52 Z transform of continuous unit step function is:

Ans

✗ 1. $X(t) = \dfrac{z}{1-z}$

✗ 2. $X(t) = \dfrac{1}{1-z}$

✗ 3. $X(t) = \dfrac{1}{z-1}$

✓ 4. $X(t) = \dfrac{z}{z-1}$

Question ID : **630680304270**
Option 1 ID : **6306801183644**
Option 2 ID : **6306801183642**
Option 3 ID : **6306801183641**
Option 4 ID : **6306801183643**
Status : **Answered**
Chosen Option : **4**

Q.53 Read the following statements and select the correct option pertaining to Z-transform.

Statement1: Inverse Z-transforms can be obtained by partial fraction expansion methods.

Statement2: Z-transform can be used for the solution of linear difference equations.

Ans

✓ 1. Both Statement 1 and Statement 2 are true.

✗ 2. Statement 1 is true and Statement 2 is false.

✗ 3. Both Statement 1 and Statement 2 are false.

✗ 4. Statement 2 is true and Statement 1 is false.

Question ID : **630680304271**
Option 1 ID : **6306801183646**
Option 2 ID : **6306801183647**
Option 3 ID : **6306801183645**
Option 4 ID : **6306801183648**
Status : **Answered**
Chosen Option : **1**

Q.54 Which of the following methods is usually used to determine the efficiency of a traction motor?

Ans

✔ 1. Field's test

✘ 2. Acceleration test

✘ 3. Swinburn's test

✘ 4. Retardation test

Q.55 A magnetic circuit having coil inductance L is dependent on x. Calculate the force.

Ans

✔ 1. $-\dfrac{1}{2}\ i^2\dfrac{dL}{dx}$

✘ 2. $L^2\dfrac{dL}{dx}$

✘ 3. $\dfrac{1}{2}L^2\dfrac{dL}{dx}$

✘ 4. $-i^2\dfrac{dL}{dx}$

Q.56 During the message recovery, it is observed that the terms are overlapping. The signal is:

Ans

✘ 1. sampled at twice the Nyquist rate

✘ 2. over sampled

✘ 3. sampled at the Nyquist rate

✔ 4. under sampled

Q.57 When corona is present on the conductors in EHV lines, it generates audible noise which is especially high during foul weather. The noise frequency range is:

Ans

✓ 1. from a very low frequency to about 20 KHz.

✗ 2. from a very low frequency to about 10 KHz.

✗ 3. from a very low frequency to about 5 KHz.

✗ 4. from a very low frequency to about 15 KHz.

Question ID : **630680304324**
Option 1 ID : **6306801183860**
Option 2 ID : **6306801183858**
Option 3 ID : **6306801183857**
Option 4 ID : **6306801183859**
Status : **Answered**
Chosen Option : **2**

Q.58 In a magnetic circuit, a current of 5 A passes through the coil having 300 uniform turns. Find total flux if the reluctance of the magnetic path is 30×10^5 AT/Wb.

Ans

✗ 1. 6.0 mWb

✗ 2. 0.6 mWb

✓ 3. 0.5 mWb

✗ 4. 5.0 mWb

Question ID : **630680304217**
Option 1 ID : **6306801183432**
Option 2 ID : **6306801183430**
Option 3 ID : **6306801183429**
Option 4 ID : **6306801183431**
Status : **Answered**
Chosen Option : **3**

Q.59 Which of the following materials is commonly used for HV insulation?

Ans

✗ 1. Rubber

✓ 2. Paper-oil insulation

✗ 3. PVC

✗ 4. Polyester resin

Question ID : **630680304248**
Option 1 ID : **6306801183554**
Option 2 ID : **6306801183556**
Option 3 ID : **6306801183555**
Option 4 ID : **6306801183553**
Status : **Answered**
Chosen Option : **2**

Q.60 What should be the value of ω for a low pass filter to have magnitude of transfer function as 0.707?

Ans
✗ 1. 0
✗ 2. Infinity
✗ 3. CR
✓ 4. 1/CR

Question ID : **630680304256**
Option 1 ID : **6306801183585**
Option 2 ID : **6306801183586**
Option 3 ID : **6306801183587**
Option 4 ID : **6306801183588**
Status : **Answered**
Chosen Option : **4**

Q.61 What number of string of insulators is used for 132 kV transmission if a suspension type insulator is used for overhead lines?

Ans
✓ 1. 12
✗ 2. 4
✗ 3. 2
✗ 4. 6

Question ID : **630680304303**
Option 1 ID : **6306801183776**
Option 2 ID : **6306801183774**
Option 3 ID : **6306801183773**
Option 4 ID : **6306801183775**
Status : **Answered**
Chosen Option : **1**

Q.62 Cultural Algorithms (CAs) are dual inheritance systems that consist of:

Ans
✓ 1. a social population and a belief space
✗ 2. an arithmetic population and a social space
✗ 3. a logic population and an arithmetic space
✗ 4. a social population and a logic space

Question ID : **630680304321**
Option 1 ID : **6306801183848**
Option 2 ID : **6306801183847**
Option 3 ID : **6306801183846**
Option 4 ID : **6306801183845**
Status : **Answered**
Chosen Option : **4**

Q.63 Find I_N and R_N, if the following network is replaced by Norton's equivalent between terminals 'a' and 'b'.

Ans
✗ 1. $I_N = 2\,A$, $R_N = 4\,\Omega$

✗ 2. $I_N = 5\,A$, $R_N = 5\,\Omega$

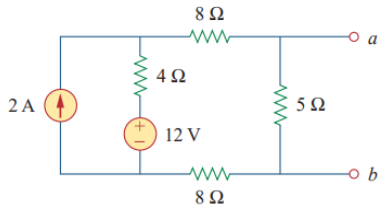✗ 3. $I_N = 2\,A$, $R_N = 2\,\Omega$

✔ 4. $I_N = 1\,A$, $R_N = 4\,\Omega$

Question ID : 630680304212
Option 1 ID : 6306801183409
Option 2 ID : 6306801183411
Option 3 ID : 6306801183412
Option 4 ID : 6306801183410
Status : **Answered**
Chosen Option : **4**

Q.64 Which of the following tests is performed for testing of DC shunt motors?

Ans
✔ 1. Swinburne's test

✗ 2. IFT test

✗ 3. Blocked rotor test

✗ 4. Short circuit test

Question ID : 630680304230
Option 1 ID : 6306801183483
Option 2 ID : 6306801183484
Option 3 ID : 6306801183481
Option 4 ID : 6306801183482
Status : **Answered**
Chosen Option : **1**

Q.65 A stranded conductor has 3 layers of wire. Find the diameter of the conductor if the diameter of each strand is 5 mm.

Ans
✗ 1. 40 mm

✗ 2. 30 mm

✗ 3. 25 mm

✔ 4. 35 mm

Question ID : 630680304249
Option 1 ID : 6306801183560
Option 2 ID : 6306801183558
Option 3 ID : 6306801183557
Option 4 ID : 6306801183559
Status : **Answered**
Chosen Option : **4**

Q.66 The electric field intensity (E) at point r due to a point charge (Q) located at r' is:

Ans

✗ 1. $E = \dfrac{Q\,(r'-r)}{4\pi\varepsilon_0\,|r\prime-r|^2}$

✓ 2. $E = \dfrac{Q\,(r-r')}{4\pi\varepsilon_0\,|r-r\prime|^3}$

✗ 3. $E = \dfrac{Q\,(r'-r)}{4\pi\varepsilon_0\,|r\prime-r|^3}$

✗ 4. $E = \dfrac{Q\,(r-r')}{4\pi\varepsilon_0\,|r-r\prime|^2}$

Q.67
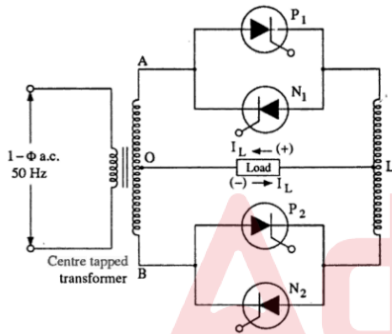
What should be the triggering sequence in the given single phase cycloconverter circuit to obtain one-third of supply frequency?

Ans

✗ 1. $P_1P_1P_2$ and $N_1N_1N_2$.

✗ 2. $P_2P_2P_1$ and $N_2N_2N_1$.

✓ 3. $P_1P_2P_1$ and $N_1N_2N_1$.

✗ 4. $P_2P_1P_2$ and $N_2N_1N_2$.

Q.68 For a feedback control system of type 2, the steady state error for a ramp input is:

Ans
- ✗ 1. infinite
- ✓ 2. zero
- ✗ 3. unity
- ✗ 4. more than unity but not infinite

Question ID : **630680304228**
Option 1 ID : **6306801183474**
Option 2 ID : **6306801183473**
Option 3 ID : **6306801183475**
Option 4 ID : **6306801183476**
Status : **Answered**
Chosen Option : **4**

Q.69 In case of electromagnetic waves, the electric field will be perpendicular to _____.

Ans
- ✗ 1. magnetic field intensity only
- ✓ 2. wave direction as well as magnetic field intensity
- ✗ 3. neither wave direction nor magnetic field intensity
- ✗ 4. wave direction only

Question ID : **630680304214**
Option 1 ID : **6306801183418**
Option 2 ID : **6306801183419**
Option 3 ID : **6306801183420**
Option 4 ID : **6306801183417**
Status : **Answered**
Chosen Option : **2**

Q.70 What is the surge impedance of a transmission line where L is the inductance and C is the capacitance per unit length of the line?

Ans
- ✗ 1. $\sqrt{LC}$
- ✓ 2. $\sqrt{\dfrac{L}{C}}$
- ✗ 3. $\sqrt{\dfrac{C}{L}}$
- ✗ 4. $\sqrt{\dfrac{1}{LC}}$

Question ID : **630680304301**
Option 1 ID : **6306801183768**
Option 2 ID : **6306801183765**
Option 3 ID : **6306801183766**
Option 4 ID : **6306801183767**
Status : **Answered**
Chosen Option : **3**

Q.71 For the following circuit, $V_{BE} = 0.7$ V and β_{dc} is 150. Calculate the value of I_E.
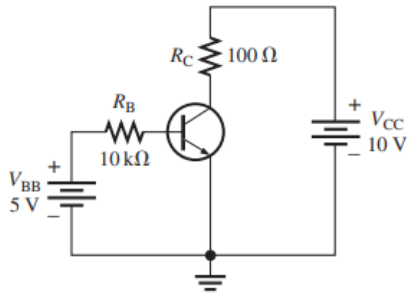
Ans
✗ 1. 64.5 mA
✗ 2. 64 mA
✗ 3. 74.9 mA
✓ 4. 64.9 mA

Question ID : **630680304242**
Option 1 ID : **6306801183530**
Option 2 ID : **6306801183529**
Option 3 ID : **6306801183532**
Option 4 ID : **6306801183531**
Status : **Answered**
Chosen Option : **4**

Q.72 In the design of digital filters, we often choose a filter with a specified magnitude characteristic that has:

Ans
✓ 1. the shortest duration
✗ 2. medium duration
✗ 3. the largest duration
✗ 4. between medium to the largest duration

Question ID : **630680304278**
Option 1 ID : **6306801183673**
Option 2 ID : **6306801183674**
Option 3 ID : **6306801183676**
Option 4 ID : **6306801183675**
Status : **Answered**
Chosen Option : **4**

Q.73 CISC is the acronym used for:

Ans
✗ 1. Complementary Instruction Set Combining.
✗ 2. Complementary Instruction Set Computing.
✓ 3. Complex Instruction Set Computing.
✗ 4. Complex Instruction Set Combining.

Question ID : **630680304327**
Option 1 ID : **6306801183870**
Option 2 ID : **6306801183869**
Option 3 ID : **6306801183872**
Option 4 ID : **6306801183871**
Status : **Answered**
Chosen Option : **2**

Q.74 A long shunt compound generator delivers a load current of 50 A and 500 V. It has armature, series field and shunt field resistance of 0.04, 0.025 Ω and 125 Ω, respectively. If the total voltage drop in brushes is 3 V, find the generated voltage.

Ans ✔ 1. 506.51 V

✘ 2. 516.48 V

✘ 3. 520.66 V

✘ 4. 509.36 V

Question ID : **630680304289**
Option 1 ID : **6306801183717**
Option 2 ID : **6306801183719**
Option 3 ID : **6306801183720**
Option 4 ID : **6306801183718**
Status : **Answered**
Chosen Option : **2**

Q.75 A DC series motor takes 40 A at 250 V and 955 rpm. The armature and field resistance are 0.3 Ω and 0.2 Ω, respectively. What will be the torque developed in the armature?

Ans ✔ 1. 92 N-m

✘ 2. 132 N-m

✘ 3. 122 N-m

✘ 4. 72 N-m

Question ID : **630680304291**
Option 1 ID : **6306801183726**
Option 2 ID : **6306801183728**
Option 3 ID : **6306801183727**
Option 4 ID : **6306801183725**
Status : **Answered**
Chosen Option : **1**

Q.76 Which of the following has a dimension?

Ans ✔ 1. Dielectric strength

✘ 2. Relative permittivity

✘ 3. Electric susceptibility

✘ 4. Relative permeability

Question ID : **630680304269**
Option 1 ID : **6306801183640**
Option 2 ID : **6306801183638**
Option 3 ID : **6306801183637**
Option 4 ID : **6306801183639**
Status : **Answered**
Chosen Option : **1**

Q.77 The average value of a full-wave rectified voltage with a peak value of 66 V is:

Ans   ✗ 1.   66 V

✔ 2.   42 V

✗ 3.   33 V

✗ 4.   88 V

Question ID : **630680304241**
Option 1 ID : **6306801183527**
Option 2 ID : **6306801183526**
Option 3 ID : **6306801183525**
Option 4 ID : **6306801183528**
Status : **Answered**
Chosen Option : **2**

Q.78 Which of the following is NOT an asymmetrical fault?

Ans   ✔ 1.   3-phase fault

✗ 2.   Line-to-line fault

✗ 3.   Double line-to-ground fault

✗ 4.   Line-to-ground fault

Question ID : **630680304300**
Option 1 ID : **6306801183764**
Option 2 ID : **6306801183762**
Option 3 ID : **6306801183763**
Option 4 ID : **6306801183761**
Status : **Answered**
Chosen Option : **1**

Q.79 Find the energy stored by a coil of inductance 20 mH and carrying a current of 1.5A.

Ans   ✗ 1.   450 mJ

✔ 2.   22.5 mJ

✗ 3.   45 mJ

✗ 4.   225 mJ

Question ID : **630680304218**
Option 1 ID : **6306801183433**
Option 2 ID : **6306801183436**
Option 3 ID : **6306801183435**
Option 4 ID : **6306801183434**
Status : **Answered**
Chosen Option : **2**

Q.80 Consider the sinusoidal signal $x(t) = \cos\left(\frac{\omega_s}{2} t + \varphi\right)$. Suppose this signal is sampled at ω_s frequency. If this impulse-sampled signal is applied as the input to an ideal lowpass filter with cutoff frequency w $\omega_s/2$, the resulting output is:

Ans

✔ 1. $x_r(t) = (\cos \varphi) \cos\left(\frac{\omega_s}{2} t\right)$

✘ 2. $x_r(t) = (\sin \varphi) \cos\left(\frac{\omega_s}{2} t\right)$

✘ 3. $x_r(t) = (\sin \varphi) \sin\left(\frac{\omega_s}{2} t\right)$

✘ 4. $x_r(t) = (\cos \varphi) \sin\left(\frac{\omega_s}{2} t\right)$

Question ID : **630680304275**
Option 1 ID : **6306801183661**
Option 2 ID : **6306801183662**
Option 3 ID : **6306801183664**
Option 4 ID : **6306801183663**
Status : **Answered**
Chosen Option : **1**

Q.81 Which of the following are true characteristics of Insulated Gate Bipolar Transistors (IGBTs)?

Ans ✘ 1. Inferior on-state characteristics and low switching speed

✘ 2. Superior on-state characteristics but low switching speed

✔ 3. Superior on-state characteristics and good switching speed

✘ 4. Inferior on-state characteristics but good switching speed

Question ID : **630680304318**
Option 1 ID : **6306801183836**
Option 2 ID : **6306801183834**
Option 3 ID : **6306801183835**
Option 4 ID : **6306801183833**
Status : **Answered**
Chosen Option : **3**

Q.82 A complex network consisting of a number of parallel branches, where each parallel branch consists of voltage source with series impedance, can be replaced with equivalent circuit consisting of one voltage source in series with equivalent impedance. This is:

Ans ✘ 1. the Compensation theorem.

✘ 2. Tellegen's theorem.

✔ 3. Milliman's theorem.

✘ 4. the Reciprocity theorem.

Question ID : **630680304257**
Option 1 ID : **6306801183590**
Option 2 ID : **6306801183592**
Option 3 ID : **6306801183589**
Option 4 ID : **6306801183591**
Status : **Answered**
Chosen Option : **3**

Q.83 If a two-port network is represented with h-parameters, then the condition for reciprocity is _____.

Ans

✗ 1. $h_{11} = h_{22}$

✔ 2. $h_{12} = -h_{21}$

✗ 3. $h_{12} = h_{21}$

✗ 4. $h_{11} = -h_{22}$

Question ID : **630680304213**
Option 1 ID : **6306801183413**
Option 2 ID : **6306801183416**
Option 3 ID : **6306801183414**
Option 4 ID : **6306801183415**
Status : **Answered**
Chosen Option : **2**

Q.84 Each search parameter (p_S) in Fuzzy algorithms is specified by:

pg = the genetic parameter,

l = the number of bits in the genetic parameter,

R = a specified parameter range, and

O = a specified offset

Ans

✗ 1. $p_S = \dfrac{p_g}{2^O - 1} R + 1$

✗ 2. $p_S = \dfrac{p_g}{2^l - 1} O + R$

✔ 3. $p_S = \dfrac{p_g}{2^l - 1} R + O$

✗ 4. $p_S = \dfrac{p_g}{2^R - 1} 1 + O$

Question ID : **630680304320**
Option 1 ID : **6306801183844**
Option 2 ID : **6306801183842**
Option 3 ID : **6306801183841**
Option 4 ID : **6306801183843**
Status : **Answered**
Chosen Option : **4**

Q.85 A 3-phase 400/200 V, Y-Y connected wound rotor induction motor has 0.06 Ω rotor resistance and 0.3 Ω stand still reactance per phase. Find the additional resistance required in the rotor circuit to make the starting torque equal to the maximum torque of the motor.

Ans ✗ 1. 0.18 Ω

✗ 2. 0.36 Ω

✗ 3. 0.30 Ω

✓ 4. 0.24 Ω

Question ID : **630680304232**
Option 1 ID : **6306801183492**
Option 2 ID : **6306801183489**
Option 3 ID : **6306801183490**
Option 4 ID : **6306801183491**
Status : **Answered**
Chosen Option : **4**

Q.86 Find the relation between output voltage (V_O) and input voltage (V_{in}) for a Boost converter, where d is the duty ratio.

Ans ✗ 1. $V_O = V_{in} * \dfrac{d}{1-d}$

✗ 2. $V_O = V_{in} * \dfrac{1}{d-1}$

✗ 3. $V_O = V_{in} * \dfrac{d}{d-1}$

✓ 4. $V_O = V_{in} * \dfrac{1}{1-d}$

Question ID : **630680304315**
Option 1 ID : **6306801183822**
Option 2 ID : **6306801183824**
Option 3 ID : **6306801183821**
Option 4 ID : **6306801183823**
Status : **Answered**
Chosen Option : **4**

Q.87 Which of the following are valid fuzzy operators defined in fuzzy set theory?

Ans ✗ 1. AND, OR

✗ 2. OR, NOT

✓ 3. AND, OR, NOT

✗ 4. AND, NOT

Question ID : **630680304247**
Option 1 ID : **6306801183549**
Option 2 ID : **6306801183550**
Option 3 ID : **6306801183552**
Option 4 ID : **6306801183551**
Status : **Answered**
Chosen Option : **1**

Q.88 Which of the following is NOT a characteristic of ideal transformer?

Ans ✗ 1. Zero resistance of windings

✗ 2. No core loss

✗ 3. No leakage flux

✔ 4. Zero permeability

Question ID : **630680304229**
Option 1 ID : **6306801183477**
Option 2 ID : **6306801183479**
Option 3 ID : **6306801183478**
Option 4 ID : **6306801183480**
Status : **Answered**
Chosen Option : **4**

Q.89 What will be the damping ratio (ξ) in a series RLC circuit excited by DC source?

Ans ✗ 1. $(2\sqrt{LC})/(L/R)$

✔ 2. $(R/L)/(2\sqrt{LC})$

✗ 3. $(2\sqrt{LC})/(R/L)$

✗ 4. $(L/R)/(2\sqrt{LC})$

Question ID : **630680304253**
Option 1 ID : **6306801183576**
Option 2 ID : **6306801183574**
Option 3 ID : **6306801183575**
Option 4 ID : **6306801183573**
Status : **Answered**
Chosen Option : **2**

Q.90 Find the percentage reactance for an element if the full load current is 50 A and the short circuit current is 250 A, when only that element is in the circuit.

Ans ✗ 1. 30%

✗ 2. 40%

✗ 3. 80%

✔ 4. 20%

Question ID : **630680304237**
Option 1 ID : **6306801183510**
Option 2 ID : **6306801183511**
Option 3 ID : **6306801183512**
Option 4 ID : **6306801183509**
Status : **Answered**
Chosen Option : **4**

Q.91
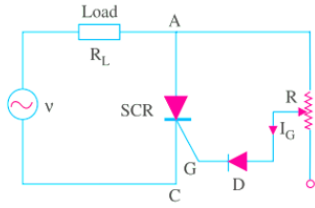
The circuit is connected to an AC supply $v = 50 \sin \theta$ and $R_L = 100\ \Omega$. Gate current is 100 μA and $V_G = 0.5$ V.

Determine the range of adjustment of R for the SCR to be triggered between 30° and 90°. Take $V_D = 0.7$ V.

Ans

✔ 1. 237.9 kΩ to 487.9 kΩ

✘ 2. 587.5 kΩ to 856.5 kΩ

✘ 3. 396.6 kΩ to 612.4 kΩ

✘ 4. 187.6 kΩ to 367.6 kΩ

Question ID : **630680304313**
Option 1 ID : **6306801183814**
Option 2 ID : **6306801183816**
Option 3 ID : **6306801183815**
Option 4 ID : **6306801183813**
Status : **Answered**
Chosen Option : **3**

Q.92

The line marked as X is the closed loop response of:

Ans

✘ 1. a P controller

✘ 2. a PD controller

✔ 3. a PI controller

✘ 4. an I controller

Question ID : **630680304282**
Option 1 ID : **6306801183689**
Option 2 ID : **6306801183692**
Option 3 ID : **6306801183691**
Option 4 ID : **6306801183690**
Status : **Answered**
Chosen Option : **1**

Q.93 Which of the following is most similar to the principle of operation of a 3-phase induction motor?

Ans
✔ 1. Transformer with a shorted secondary

✘ 2. Synchronous motor

✘ 3. Repulsion motor

✘ 4. Auto transformer

Q.94 Which of the following plots is NOT used in frequency response analysis?

Ans
✘ 1. Magnitude versus phase angle plot

✘ 2. Polar plot

✔ 3. Nyquist plot

✘ 4. Bode plot

Q.95 Find the time constant for the following circuit.

Ans
✘ 1. 1.2 s

✘ 2. 0.5 s

✘ 3. 2.0 s

✔ 4. 0.4 s

Q.96
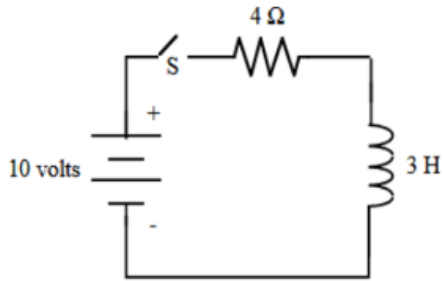
The switch S is closed at t = 0. The complete response for i(t) for t > 0 is:

Ans ✗ 1. $2.5 - 2.5\, e^{-0.75\, t}$

✔ 2. $2.5 - 2.5\, e^{-1.33\, t}$

✗ 3. $2.5 - 2.5\, e^{-1.43\, t}$

✗ 4. $2.5 - 2.5\, e^{-2.5\, t}$

Question ID : 630680304254
Option 1 ID : 6306801183577
Option 2 ID : 6306801183578
Option 3 ID : 6306801183579
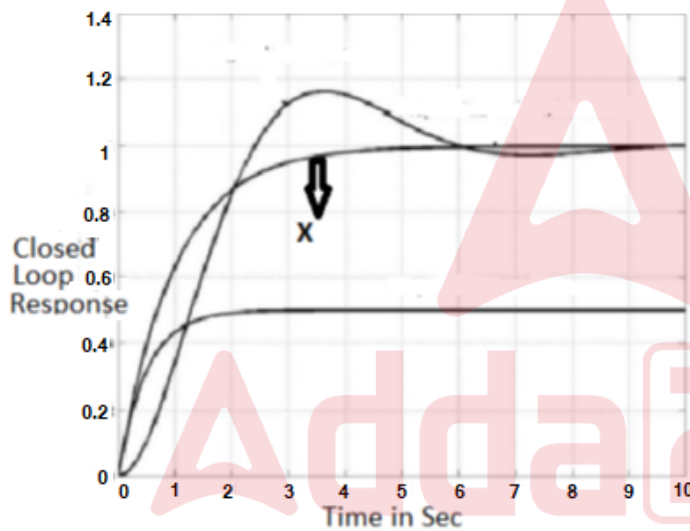Option 4 ID : 6306801183580
Status : **Answered**
Chosen Option : **2**

Q.97 The ratio of back EMF to voltage of a DC motor is an indication of:

Ans ✗ 1. starting torque

✗ 2. speed regulation

✗ 3. running torque

✔ 4. efficiency

Question ID : 630680304293
Option 1 ID : 6306801183735
Option 2 ID : 6306801183733
Option 3 ID : 6306801183736
Option 4 ID : 6306801183734
Status : **Answered**
Chosen Option : **4**

Q.98 In the Schmitt trigger circuit shown, $V_{CE}(\text{sat}) = 0.1$ V. The output logic low level is:
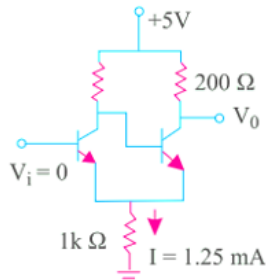
Ans ✗ 1. 3.65 V

✗ 2. 3.85 V

✔ 3. 1.35 V

✗ 4. 1.15 V

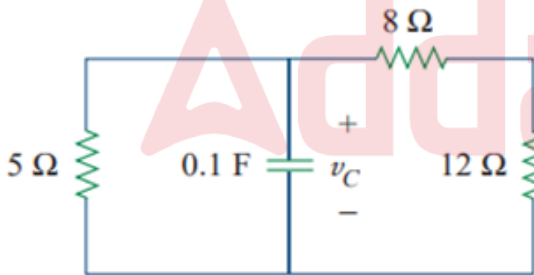Question ID : 630680304310
Option 1 ID : 6306801183803
Option 2 ID : 6306801183804
Option 3 ID : 6306801183802
Option 4 ID : 6306801183801
Status : **Answered**
Chosen Option : **4**

Q.99 Read the statements and select the correct option pertaining to the load flow analysis.

1. The diagonal element of each node is the negated admittance between the nodes.

2. The off-diagonal element is the sum of the admittances connected to it.

Ans ✗ 1. Statement 1 is true and Statement 2 is false.

✔ 2. Both Statement 1 and Statement 2 are false.

✗ 3. Both Statement 1 and Statement 2 are true.

✗ 4. Statement 2 is true and Statement 1 is false.

Question ID : 630680304304
Option 1 ID : 6306801183779
Option 2 ID : 6306801183777
Option 3 ID : 6306801183778
Option 4 ID : 6306801183780
Status : **Answered**
Chosen Option : **3**

Q.100 A 3-phase transmission line is being supported by three disc insulators. The potentials across top unit and middle unit are 8 kV and 11 kV, respectively. Calculate the ratio of capacitance between pin and earth to the self-capacitance of each unit.

Ans ✔ 1. 0.375

✗ 2. 0.275

✗ 3. 0.475

✗ 4. 0.175

Question ID : 630680304234
Option 1 ID : 6306801183499
Option 2 ID : 6306801183498
Option 3 ID : 6306801183500
Option 4 ID : 6306801183497
Status : **Answered**
Chosen Option : **2**

Q.101 A coil of 16 H is coupled with a coil of 4 H in such a way that coefficient of coupling is unity. Find the mutual inductance.

Ans
✗ 1. 10 H

✓ 2. 8 H

✗ 3. 12 H

✗ 4. 16 H

Question ID : **630680304219**
Option 1 ID : **6306801183438**
Option 2 ID : **6306801183437**
Option 3 ID : **6306801183439**
Option 4 ID : **6306801183440**
Status : **Answered**
Chosen Option : **2**

Q.102
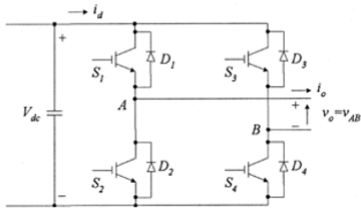
What will be the output voltage of this single-phase full bridge inverter when the switches S_2 and S_3 are turned on?

Ans
✗ 1. $-2V_{dc}$

✗ 2. V_{dc}

✗ 3. $2V_{dc}$

✓ 4. $-V_{dc}$

Question ID : **630680304317**
Option 1 ID : **6306801183832**
Option 2 ID : **6306801183829**
Option 3 ID : **6306801183831**
Option 4 ID : **6306801183830**
Status : **Answered**
Chosen Option : **4**

Q.103 Find the equation for critical disruptive voltage (V_d) for local and general corona on a 3-phase overhead transmission line, where:

d = distance between conductor

r = radius of the conductor

m = irregularity factor

δ = the air density correction factor

Ans

✗ 1. $V_d = (21.1 * m * δ * d) \ln \frac{d}{r}$

✗ 2. $V_d = (21.1 * m * δ * r) \ln \frac{r}{d}$

✔ 3. $V_d = (21.1 * m * δ * r) \ln \frac{d}{r}$

✗ 4. $V_d = (21.1 * m * δ * d) \ln \frac{r}{d}$

Question ID : **630680304305**
Option 1 ID : **6306801183783**
Option 2 ID : **6306801183782**
Option 3 ID : **6306801183781**
Option 4 ID : **6306801183784**
Status : **Answered**
Chosen Option : **3**

Q.104 Which of the following conversions is obtained with the help of Gauss divergence theorem?

Ans

✗ 1. Line to surface integral

✗ 2. Volume to line integral

✔ 3. Surface to volume integral

✗ 4. Surface to line integral

Question ID : **630680304215**
Option 1 ID : **6306801183422**
Option 2 ID : **6306801183424**
Option 3 ID : **6306801183423**
Option 4 ID : **6306801183421**
Status : **Answered**
Chosen Option : **3**

Q.105 What is the given circuit known as?
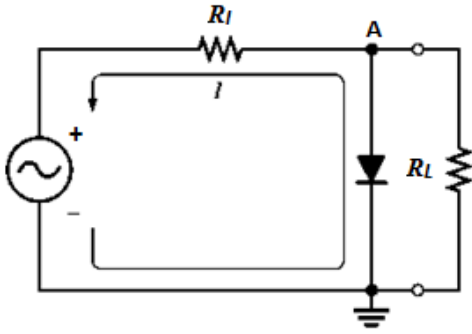
Ans
✔ 1. Positive clipper
✘ 2. Biased clipper
✘ 3. Clamper
✘ 4. Negative clipper

Question ID : **630680304240**
Option 1 ID : **6306801183521**
Option 2 ID : **6306801183523**
Option 3 ID : **6306801183524**
Option 4 ID : **6306801183522**
Status : **Answered**
Chosen Option : **1**

Q.106 What type of feedback is used in the OP-AMP for it to operate as a comparator?

Ans
✘ 1. Regenerative feedback
✘ 2. Negative feedback
✔ 3. No feedback
✘ 4. Positive feedback

Question ID : **630680304309**
Option 1 ID : **6306801183799**
Option 2 ID : **6306801183797**
Option 3 ID : **6306801183800**
Option 4 ID : **6306801183798**
Status : **Answered**
Chosen Option : **3**

Q.107 Which of the following conditions is NOT a true derivative of Ampere's circuit law?

Ans ✔ 1. $\nabla \times J = H$

✘ 2. $I_{enc} = \int_S^0 (\nabla \times H) \cdot dS$

✘ 3. $I_{enc} = \int_S^0 J \cdot dS$

✘ 4. $I_{enc} = \oint_L^0 H \cdot dl$

Question ID : **630680304266**
Option 1 ID : **6306801183628**
Option 2 ID : **6306801183626**
Option 3 ID : **6306801183627**
Option 4 ID : **6306801183625**
Status : **Answered**
Chosen Option : **3**

Q.108 If the poles of a closed-loop are complex with positive real parts, then the system is:

Ans ✘ 1. exponential decay

✔ 2. exponential and oscillatory increase

✘ 3. decaying and oscillatory

✘ 4. exponential increase

Question ID : **630680304287**
Option 1 ID : **6306801183709**
Option 2 ID : **6306801183712**
Option 3 ID : **6306801183710**
Option 4 ID : **6306801183711**
Status : **Answered**
Chosen Option : **3**

Q.109 Which of the following is NOT true according to Faraday's experiments?

Ans ✔ 1.
A static magnetic field produces a current flow in a closed circuit

✘ 2. Induced electromotive force = $-N \dfrac{d\psi}{dt}$

✘ 3. Induced electromotive force = $-\dfrac{d\lambda}{dt}$

✘ 4.
A time-varying field produces an induced voltage in a closed circuit

Question ID : **630680304265**
Option 1 ID : **6306801183621**
Option 2 ID : **6306801183624**
Option 3 ID : **6306801183623**
Option 4 ID : **6306801183622**
Status : **Answered**
Chosen Option : **1**

Q.110 Determine the gain at the breakaway point for the open-loop transfer function $G(s)H(s) = \dfrac{K}{s\,(s+1)}$.

Ans ✔ 1. 0.25

✘ 2. −0.25

✘ 3. −0.5

✘ 4. 0.5

Question ID : **630680304280**
Option 1 ID : **6306801183683**
Option 2 ID : **6306801183681**
Option 3 ID : **6306801183682**
Option 4 ID : **6306801183684**
Status : **Answered**
Chosen Option : **3**

Q.111 A conductor of length 0.5 m moves in a uniform magnetic field of 1.2 T at a velocity of 30 m/s. Find the induced voltage in the conductor when the direction of motion is perpendicular to the field.

Ans ✘ 1. 10 V

✔ 2. 18 V

✘ 3. 8 V

✘ 4. 15 V

Question ID : **630680304220**
Option 1 ID : **6306801183443**
Option 2 ID : **6306801183441**
Option 3 ID : **6306801183444**
Option 4 ID : **6306801183442**
Status : **Answered**
Chosen Option : **2**

Q.112 If the following circuit is replaced by its Thevenin's equivalent between terminals 'a' and 'b', what will be the R_{TH}?
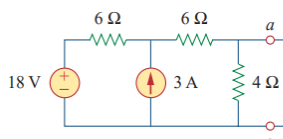
Ans ✘ 1. 16 Ω

✘ 2. 10 Ω

✘ 3. 4 Ω

✔ 4. 3 Ω

Question ID : **630680304211**
Option 1 ID : **6306801183408**
Option 2 ID : **6306801183407**
Option 3 ID : **6306801183406**
Option 4 ID : **6306801183405**
Status : **Answered**
Chosen Option : **4**

Q.113 Which of the following is the main disadvantage of Hopkinson's test for finding efficiency of a DC shunt motor?

Ans ✔ 1. Two identical shunt machines are required.

✗ 2. It ignores the iron losses.

✗ 3. It requires full load power.

✗ 4. One motor and one generator is required.

Question ID : **630680304294**
Option 1 ID : **6306801183740**
Option 2 ID : **6306801183737**
Option 3 ID : **6306801183738**
Option 4 ID : **6306801183739**
Status : **Answered**
Chosen Option : **4**

Q.114 A system is given by $G(s) = \dfrac{K}{s(s+2)(s+4)}$ and H(s) = 1. What should be the value of K for the system to have stability?

Ans ✗ 1. >48

✗ 2. <24

✔ 3. <48

✗ 4. >24

Question ID : **630680304279**
Option 1 ID : **6306801183679**
Option 2 ID : **6306801183678**
Option 3 ID : **6306801183680**
Option 4 ID : **6306801183677**
Status : **Answered**
Chosen Option : **2**

Q.115 In order to reduce voltage drops in various sections, distant points of the distributor are joined through a conductor called _____.

Ans ✗ 1. isolator

✗ 2. separator

✗ 3. differentiator

✔ 4. interconnector

Question ID : **630680304239**
Option 1 ID : **6306801183518**
Option 2 ID : **6306801183517**
Option 3 ID : **6306801183520**
Option 4 ID : **6306801183519**
Status : **Answered**
Chosen Option : **4**

Q.116
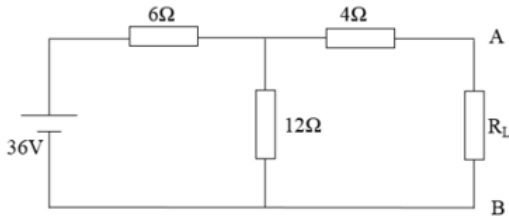
What should be the value of R_L in the above circuit for maximum power transfer?

Ans ✗ 1. $4\,\Omega$

✗ 2. $2\,\Omega$

✔ 3. $8\,\Omega$

✗ 4. $6\,\Omega$

Question ID : **630680304258**
Option 1 ID : **6306801183594**
Option 2 ID : **6306801183593**
Option 3 ID : **6306801183596**
Option 4 ID : **6306801183595**
Status : **Answered**
Chosen Option : **3**

Q.117 A point charge of 30 nC is located at the origin, while plane Y = 3 carries charge 10 nC/m^2. Find flux density at (0, 4, 3).

Ans

✗ 1. $(3.076\ a_y + 2.0573\ a_z)\ \text{nC/m}^2$

✔ 2. $(5.076\ a_y + 0.0573\ a_z)\ \text{nC/m}^2$

✗ 3. $(5.076\ a_y + 3.0573\ a_z)\ \text{nC/m}^2$

✗ 4. $(3.076\ a_y + 0.0573\ a_z)\ \text{nC/m}^2$

Question ID : **630680304260**
Option 1 ID : **6306801183601**
Option 2 ID : **6306801183604**
Option 3 ID : **6306801183603**
Option 4 ID : **6306801183602**
Status : **Answered**
Chosen Option : **3**

Q.118 Which of the following is NOT an advantage of Gauss-Seidel method over Newton-Raphson method?

Ans ✗ 1. Single iteration of computation is faster.

✗ 2. Ease of programming.

✗ 3. Most efficient use of core memory.

✔ 4. Number of iterations required is lesser.

Question ID : **630680304238**
Option 1 ID : **6306801183515**
Option 2 ID : **6306801183513**
Option 3 ID : **6306801183514**
Option 4 ID : **6306801183516**
Status : **Answered**
Chosen Option : **4**

Q.119 What is the maximum value of torque angle in electrical degrees for a synchronous motor?

Ans
 ✗ 1. 360
 ✔ 2. 90
 ✗ 3. 45
 ✗ 4. 180

Question ID : **630680304298**
Option 1 ID : **6306801183756**
Option 2 ID : **6306801183754**
Option 3 ID : **6306801183753**
Option 4 ID : **6306801183755**
Status : **Answered**
Chosen Option : **2**

Q.120 What should be the hysteresis loops of the materials used in electric generators, motors and transformers so that hysteresis losses are minimal?

Ans
 ✗ 1. Short and wide
 ✗ 2. Short and narrow
 ✔ 3. Tall but narrow
 ✗ 4. Tall and wide

Question ID : **630680304267**
Option 1 ID : **6306801183630**
Option 2 ID : **6306801183629**
Option 3 ID : **6306801183632**
Option 4 ID : **6306801183631**
Status : **Answered**
Chosen Option : **3**

Section : **Test on Reasoning**

Q.1 Three statements are given followed by two conclusions. Consider the statements and conclusions even if they vary from commonly known facts and decide which of the conclusions follow from the given statements.

Statements:

Some birds are cats.

No dog is a cat.

All dogs are birds.

Conclusions:

I. Some birds are dogs.

II. Some cats are birds.

Ans
 ✗ 1. Only conclusion II follows.
 ✗ 2. Neither conclusion I nor conclusion II follows.
 ✔ 3. Both the conclusions follow.
 ✗ 4. Only conclusion I follows.

Question ID : **630680304338**
Option 1 ID : **6306801183914**
Option 2 ID : **6306801183915**
Option 3 ID : **6306801183916**
Option 4 ID : **6306801183913**
Status : **Answered**
Chosen Option : **3**

Q.2 Three of the four letter cluster-pairs are similar in some way and one is different. Select the odd term out.

Ans

✔ 1. FJQ : QHM

✘ 2. HKN : NJM

✘ 3. PSV : VRU

✘ 4. CFK : KEH

Question ID : **630680304363**
Option 1 ID : **6306801184014**
Option 2 ID : **6306801184013**
Option 3 ID : **6306801184015**
Option 4 ID : **6306801184016**
Status : **Answered**
Chosen Option : **1**

Q.3 If all the letters of the word 'TOUGH' are arranged in alphabetical order which will be the middle most letter?

Ans

✘ 1. H

✘ 2. T

✔ 3. O

✘ 4. G

Question ID : **630680304349**
Option 1 ID : **6306801183958**
Option 2 ID : **6306801183959**
Option 3 ID : **6306801183957**
Option 4 ID : **6306801183960**
Status : **Answered**
Chosen Option : **3**

Q.4 In a code language, 'AMRISH' is coded as '136', 'DEVIKA' is coded as '156', how will 'MARY' be coded as in the same code language?

Ans

✔ 1. 57

✘ 2. 171

✘ 3. 114

✘ 4. 228

Question ID : **630680304354**
Option 1 ID : **6306801183978**
Option 2 ID : **6306801183979**
Option 3 ID : **6306801183977**
Option 4 ID : **6306801183980**
Status : **Answered**
Chosen Option : **1**

Q.5 Find the wrong term in the given number series.

75, 79, 92, 104, 129

Ans ✔ 1. 92

✘ 2. 104

✘ 3. 129

✘ 4. 79

Question ID : **630680304370**
Option 1 ID : **6306801184043**
Option 2 ID : **6306801184044**
Option 3 ID : **6306801184042**
Option 4 ID : **6306801184041**
Status : **Answered**
Chosen Option : **4**

Q.6 Find the approximate value of the given expression.

$1.99 \times 2.02 + 3.03 - 6.03 \div 2.01$

Ans ✘ 1. 8

✔ 2. 4

✘ 3. 13

✘ 4. 17

Question ID : **630680304371**
Option 1 ID : **6306801184045**
Option 2 ID : **6306801184046**
Option 3 ID : **6306801184047**
Option 4 ID : **6306801184048**
Status : **Answered**
Chosen Option : **2**

Q.7 A letter, number and symbol arranged machine when given an input of letters and numbers rearranges them following a particular pattern in every step. Following is an illustration of output, the final step, when given an input:

Input: A # Y 8 T 4 @

Step1: 8 4 A # Y T @

Step2: 8 4 A Y T # @

Step3: 4 8 A T Y # @ (Output)

Which will be the output for the below input?

T S J 13 P 9 *

Ans ✘ 1. 9 13 T P J S *

✔ 2. 9 13 J P T S *

✘ 3. 13 9 J P T S *

✘ 4. 13 9 J T P S *

Question ID : **630680304355**
Option 1 ID : **6306801183984**
Option 2 ID : **6306801183983**
Option 3 ID : **6306801183981**
Option 4 ID : **6306801183982**
Status : **Answered**
Chosen Option : **1**

Q.8 In a code language, 'PIYUSH' is coded as '294', 'MOHAN' is coded as '153', how will 'RAVISH' be coded as in the same code language?

Ans ✗ 1. 156

✗ 2. 324

✔ 3. 231

✗ 4. 196

Question ID : **630680304353**
Option 1 ID : **6306801183975**
Option 2 ID : **6306801183974**
Option 3 ID : **6306801183976**
Option 4 ID : **6306801183973**
Status : **Answered**
Chosen Option : **1**

Q.9 Six employees P, Q, R, S, T and U live in a same building but on different floors of a six floored building. Ground floor is marked as floor 1, floor above it as floor 2 and so on up to floor 6. R lives 2 floors above the floor of U and 2 floors below the floor of P. Q lives 2 floors below the floor of T and 2 floors above the floor of S. R lives on any floor below the floor of Q. Who lives on 4th floor?

Ans ✔ 1. Q

✗ 2. P

✗ 3. T

✗ 4. S

Question ID : **630680304333**
Option 1 ID : **6306801183896**
Option 2 ID : **6306801183894**
Option 3 ID : **6306801183895**
Option 4 ID : **6306801183893**
Status : **Answered**
Chosen Option : **1**

Q.10 Select the term which is related to the 3rd term in the same way as the 2nd term is related to the 1st term.

BJ : YQ :: HP : ?

Ans ✗ 1. BP

✗ 2. JT

✗ 3. MP

✔ 4. SK

Question ID : **630680304361**
Option 1 ID : **6306801184008**
Option 2 ID : **6306801184006**
Option 3 ID : **6306801184007**
Option 4 ID : **6306801184005**
Status : **Answered**
Chosen Option : **4**

Q.11 Which term will replace the question mark in the given alpha-numeric series?

93K, 118E, ?, 168S, 193M

Ans ✗ 1. 143X

✗ 2. 148A

✗ 3. 143Z

✓ 4. 143Y

Question ID : **630680304346**
Option 1 ID : **6306801183947**
Option 2 ID : **6306801183948**
Option 3 ID : **6306801183945**
Option 4 ID : **6306801183946**
Status : **Answered**
Chosen Option : **4**

Q.12 Consider the given figure and answer the following question. Triangle indicates girls, rectangle indicates dancers, circle indicates players. Numbers written in different shapes indicate number of person in that category.
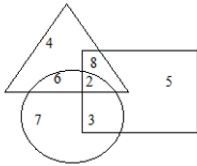
How many girls are either dancers or players but not both?

Ans ✗ 1. 10

✗ 2. 16

✗ 3. 8

✓ 4. 14

Question ID : **630680304340**
Option 1 ID : **6306801183921**
Option 2 ID : **6306801183924**
Option 3 ID : **6306801183923**
Option 4 ID : **6306801183922**
Status : **Answered**
Chosen Option : **4**

Q.13 If each even digit of the number 725826 is replaced with its respective successor and each odd digit is replaced with its predecessor, what will be the total of all digits in the new number?

Ans ✗ 1. 24

✗ 2. 52

✗ 3. 48

✓ 4. 32

Question ID : **630680304347**
Option 1 ID : **6306801183952**
Option 2 ID : **6306801183951**
Option 3 ID : **6306801183950**
Option 4 ID : **6306801183949**
Status : **Answered**
Chosen Option : **4**

Q.14 Three statements are given followed by two conclusions. Consider the statements and conclusions even if they vary from commonly known facts and decide which of the conclusions follow from the given statements.

Statements:

Some students are players.

Some players are dancers.

No dancer is a student.

Conclusions:

I. Some dancers are players.

II. No student is a dancer.

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

✗ 2. Only conclusion I follows.

✗ 3. Only conclusion II follows.

✔ 4. Both the conclusions follow.

Question ID : **630680304339**
Option 1 ID : **6306801183919**
Option 2 ID : **6306801183917**
Option 3 ID : **6306801183918**
Option 4 ID : **6306801183920**
Status : **Answered**
Chosen Option : **2**

Q.15 Two statements are given followed by two conclusions. Decide which of the conclusions logically follows from the given statements.

Statements:

P and Q is a couple, M and N is a couple.

N is the daughter-in-law of Q.

Conclusions:

I. P is the father of M.

II. Q is the father-in-law of N.

Ans ✔ 1. Either conclusion I or conclusion II follows.

✗ 2. Only conclusion I follows.

✗ 3. Only conclusion II follows.

✗ 4. Both the conclusions follow.

Question ID : **630680304366**
Option 1 ID : **6306801184027**
Option 2 ID : **6306801184025**
Option 3 ID : **6306801184026**
Option 4 ID : **6306801184028**
Status : **Answered**
Chosen Option : **1**

Q.16 Which will be the next term in the given letter series?

X, W, S, J, T, ?

Ans ✗ 1. K

✗ 2. S

✗ 3. P

✔ 4. U

Question ID : **630680304345**
Option 1 ID : **6306801183944**
Option 2 ID : **6306801183941**
Option 3 ID : **6306801183942**
Option 4 ID : **6306801183943**
Status : **Answered**
Chosen Option : **3**

Q.17 Six friends M, N, O, P, Q and R are playing a game standing equidistantly in a circle facing the center. Only M is standing between O and Q. Only N is standing between P and R. P is directly facing O. Q is at immediate left of M.

Who is 3rd to the left of M?

Ans ✔ 1. N

✗ 2. P

✗ 3. R

✗ 4. Q

Question ID : **630680304337**
Option 1 ID : **6306801183911**
Option 2 ID : **6306801183909**
Option 3 ID : **6306801183910**
Option 4 ID : **6306801183912**
Status : **Answered**
Chosen Option : **1**

Q.18 If a direction indicator is showing South as North West and North as South East, then which is the actual direction shown by it as North East?

Ans ✗ 1. South East

✔ 2. West

✗ 3. South

✗ 4. South West

Question ID : **630680304358**
Option 1 ID : **6306801183995**
Option 2 ID : **6306801183994**
Option 3 ID : **6306801183993**
Option 4 ID : **6306801183996**
Status : **Answered**
Chosen Option : **3**

Q.19 Six boxes A, B, C, D, E and F are kept on one another but not in the same order. Among all the boxes one box is red and others are black. Red box is not kept between 2 black boxes. Box C is kept above box F and below box E. Box B, a black box, is kept 2 places above box C. Box A is kept 3 places below box C. Which one is the red box?

Ans   ✗ 1.   Box F

       ✗ 2.   Box D

       ✗ 3.   Box E

       ✓ 4.   Box A

Question ID : **630680304334**
Option 1 ID : **6306801183899**
Option 2 ID : **6306801183897**
Option 3 ID : **6306801183898**
Option 4 ID : **6306801183900**
Status : **Answered**
Chosen Option : **4**

Q.20 Given below is a statement followed by two assumptions numbered I and II. You have to decide which of the assumptions is implicit in the given statement.

Statement: Meena says, 'I can win in chess easily.'

Assumptions:

I. Chess is an easy game.

II. Meena is expert in playing chess.

Ans   ✗ 1.   Only assumption I is implicit.

       ✗ 2.   Both the assumptions are implicit.

       ✓ 3.   Only assumption II is implicit.

       ✗ 4.   Neither assumption I nor assumption II is implicit.

Question ID : **630680304365**
Option 1 ID : **6306801184021**
Option 2 ID : **6306801184024**
Option 3 ID : **6306801184022**
Option 4 ID : **6306801184023**
Status : **Answered**
Chosen Option : **3**

Q.21 Six children M, N, O, P, Q and R are seated in a straight line facing the North. Only O is seated between M and Q. Only R is seated between N and P. P is at immediate right of Q. Who is at left end?

Ans   ✗ 1.   P

       ✓ 2.   M

       ✗ 3.   Q

       ✗ 4.   N

Question ID : **630680304330**
Option 1 ID : **6306801183882**
Option 2 ID : **6306801183884**
Option 3 ID : **6306801183883**
Option 4 ID : **6306801183881**
Status : **Answered**
Chosen Option : **2**

Q.22 Seven friends P, Q, R, S, T, U and V prepared together for an entrance examination and each one scored different marks. Only three friends scored more than P. Only four friends scored less than T. Q scored less marks than U but more marks than R. Only one friend scored less marks than V. S scored more than T but not the highest. Who scored more than V but less than P?

Ans ✗ 1. T

✗ 2. S

✓ 3. Q

✗ 4. R

Question ID : **630680304344**
Option 1 ID : **6306801183940**
Option 2 ID : **6306801183938**
Option 3 ID : **6306801183937**
Option 4 ID : **6306801183939**
Status : **Answered**
Chosen Option : **3**

Q.23 Given is a question followed by two statements. Consider the question and statements and decide which of the statements is sufficient to answer the given question.

Question: Is Rehan elder to Mona?

Statements:

I. Mona is 5 years younger to Ajay.

II. Ajay is 7 years elder to Rehan.

Ans ✗ 1. Only statement II is sufficient.

✗ 2. Neither statement I nor statement II is sufficient.

✗ 3. Only statement I is sufficient.

✓ 4. Both the statements are necessary.

Question ID : **630680304360**
Option 1 ID : **6306801184002**
Option 2 ID : **6306801184003**
Option 3 ID : **6306801184001**
Option 4 ID : **6306801184004**
Status : **Answered**
Chosen Option : **4**

Q.24 If in a code language,

A+B, means A is the brother of B,

A-B, means A is the father of B,

A$B, means A is the wife of B,

A@B, means A is the son of B;

then for the given expression 'J @ Q $ G – T + S', how is J related to S?

Ans ✔ 1. Brother

✘ 2. Cousin

✘ 3. Sister

✘ 4. Uncle

Question ID : **630680304359**
Option 1 ID : **6306801183997**
Option 2 ID : **6306801184000**
Option 3 ID : **6306801183998**
Option 4 ID : **6306801183999**
Status : **Answered**
Chosen Option : **1**

Q.25 Given line graph depicts percentage of marks obtained by number of students of two sections of class XI in mathematics. Consider the graph and answer the question that follows.
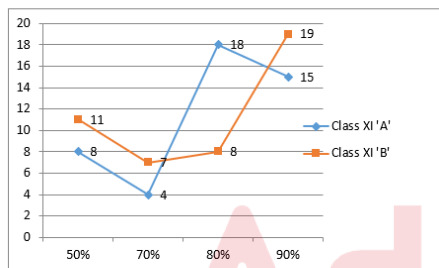
What is the difference between the number of students who got the highest percentage in Class XI 'A' and number of students who got the lowest percentage in Class XI 'B'?

Ans ✘ 1. 3

✔ 2. 4

✘ 3. 6

✘ 4. 10

Question ID : **630680304374**
Option 1 ID : **6306801184059**
Option 2 ID : **6306801184057**
Option 3 ID : **6306801184060**
Option 4 ID : **6306801184058**
Status : **Answered**
Chosen Option : **2**

Q.26 If starting from ones place, odd number places digits of the number 947051 are replaced with their respective successors, then what will be the difference between the addition of even number places digits and addition odd number places digits?

Ans ✗ 1. 27

✗ 2. 9

✗ 3. 32

✔ 4. 13

Question ID : **630680304373**
Option 1 ID : **6306801184053**
Option 2 ID : **6306801184055**
Option 3 ID : **6306801184054**
Option 4 ID : **6306801184056**
Status : **Answered**
Chosen Option : **4**

Q.27 Given pie chart depicts number of plants (in percentage) in a garden. Consider the chart and answer the question that follows.
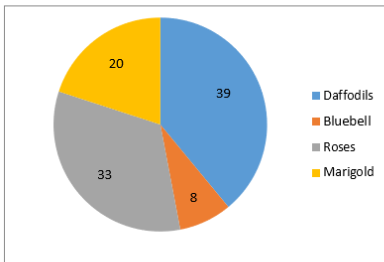
If there are 17 marigold plants in the garden, then how many total plants are there?

Ans ✔ 1. 85

✗ 2. 75

✗ 3. 48

✗ 4. 340

Question ID : **630680304376**
Option 1 ID : **6306801184066**
Option 2 ID : **6306801184067**
Option 3 ID : **6306801184068**
Option 4 ID : **6306801184065**
Status : **Answered**
Chosen Option : **1**

Q.28 Seven friends A, B, C, D, E, F and G are seated around a circular table facing the center. In the group two girls are there and rest are boys. No girl is seated between two boys only. A is 2nd to the left of a girl, who is 3rd to the left of D. Only C is seated between F and G. B is a girl and seated 2nd to the right of E. D is not an immediate neighbor of F. Who is the second girl?

Ans ✔ 1. F

✗ 2. C

✗ 3. E

✗ 4. A

Question ID : **630680304328**
Option 1 ID : **6306801183876**
Option 2 ID : **6306801183873**
Option 3 ID : **6306801183875**
Option 4 ID : **6306801183874**
Status : **Answered**
Chosen Option : **1**

Q.29 Consider the given figure and answer the following question. Triangle indicates players, rectangle indicates primary students, circle indicates kids. Numbers written in different shapes indicate number of person in that category.
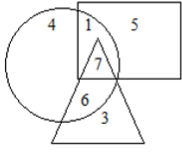
How many players are kids but not primary students?

Ans ✗ 1. 7

✔ 2. 6

✗ 3. 1

✗ 4. 13

Question ID : **630680304341**
Option 1 ID : **6306801183925**
Option 2 ID : **6306801183926**
Option 3 ID : **6306801183928**
Option 4 ID : **6306801183927**
Status : **Answered**
Chosen Option : **2**

Q.30 Seven students T, U, V, W, X, Y and Z are entering the classroom in the order of decreasing height. All have different heights. W enters after two of his friends. Z enters before three of his friends. V enters just after Y, who enters just after X. T is not the first to enter. Who enters the first?

Ans ✗ 1. X

✗ 2. Z

✔ 3. U

✗ 4. W

Question ID : **630680304343**
Option 1 ID : **6306801183935**
Option 2 ID : **6306801183933**
Option 3 ID : **6306801183936**
Option 4 ID : **6306801183934**
Status : **Answered**
Chosen Option : **3**

Q.31 One statement is given followed by two courses of action. Decide which of the courses of action logically follows for pursuing.

Statement:

Class X result of School A this year is not satisfactory.

Courses of Action:

I. Teachers teaching Class X should be changed.

II. Reasons behind students' weak performance should be identified and resolved.

Ans ✔ 1. Only Course of Action II follows.

✘ 2. Only Course of Action I follows.

✘ 3. Neither Course of Action I nor II follows.

✘ 4. Both the Courses of Action follow.

Question ID : **630680304367**
Option 1 ID : **6306801184030**
Option 2 ID : **6306801184029**
Option 3 ID : **6306801184031**
Option 4 ID : **6306801184032**
Status : **Answered**
Chosen Option : **1**

Q.32 Ajay, Bhanu, Chetan, Danish, Eesha and Franklin live in a same building but each one on different floor of a six floored building. Ground floor is marked as floor 1, floor above it as floor 2 and so on up to floor 6. A does not live on just above or just below the floor of D. E does not live on just above or just below the floor of B. Only one friend lives between the floors of A and E. E does not live on any floor below the floor of A. Neither E nor D live on top floor. Neither A nor B live on bottom floor. Neither C nor F live on bottom floor. Who lives on 3rd floor?

Ans ✘ 1. C

✘ 2. F

✘ 3. E

✔ 4. A

Question ID : **630680304336**
Option 1 ID : **6306801183908**
Option 2 ID : **6306801183907**
Option 3 ID : **6306801183906**
Option 4 ID : **6306801183905**
Status : **Answered**
Chosen Option : **4**

Q.33 Which will be the next term in the given number series?

17, 34, 61, 98, ?

Ans ✔ 1. 145

✘ 2. 102

✘ 3. 126

✘ 4. 112

Question ID : **630680304369**
Option 1 ID : **6306801184039**
Option 2 ID : **6306801184040**
Option 3 ID : **6306801184038**
Option 4 ID : **6306801184037**
Status : **Answered**
Chosen Option : **1**

Q.34 If in the word 'easy', vowels are replaced with 3 steps forward letters respectively and consonants are replaced with 5 steps backward letters respectively; which will be the 2nd letter from the right end?

Ans
✗ 1. D
✗ 2. V
✗ 3. S
✓ 4. N

Question ID : **630680304348**
Option 1 ID : **6306801183954**
Option 2 ID : **6306801183956**
Option 3 ID : **6306801183955**
Option 4 ID : **6306801183953**
Status : **Answered**
Chosen Option : **4**

Q.35 Eight friends A, B, C, D, E, F, G and H are seated around a square table facing inside. Four of them are seated at corners and four are seated at the middle of the sides. One friend is a foreigner among all who is seated between F and H only.
D is 4th to the right of G and 2nd to the left of A. Only E is seated between B and C. Who is the foreigner?

Ans
✗ 1. B
✓ 2. A
✗ 3. D
✗ 4. C

Question ID : **630680304329**
Option 1 ID : **6306801183877**
Option 2 ID : **6306801183878**
Option 3 ID : **6306801183879**
Option 4 ID : **6306801183880**
Status : **Answered**
Chosen Option : **2**

Q.36 Ajay, Bhanu, Chetan, Danish, Eesha and Franklin live in a same building but each one on different floor of a six floored building. Ground floor is marked as floor 1, floor above it as floor 2 and so on up to floor 6. A does not live on just above or just below the floor of D. E does not live on just above or just below the floor of B. Only one friend lives between the floors of A and E. E does not live on any floor below the floor of A. Neither E nor D live on top floor. Neither A nor B live on bottom floor. Neither C nor F live on bottom floor. Who lives on 5th floor?

Ans
✗ 1. F
✗ 2. C
✓ 3. E
✗ 4. A

Question ID : **630680304335**
Option 1 ID : **6306801183904**
Option 2 ID : **6306801183903**
Option 3 ID : **6306801183902**
Option 4 ID : **6306801183901**
Status : **Answered**
Chosen Option : **1**

Q.37 In a code language, 'OVER' is coded as 'QSGO', 'MANGO' is coded as 'JCKDQ', how will 'GRAPE' be coded as in the same code language?

Ans
✗ 1. ITCRG

✗ 2. ITXMG

✓ 3. DOCMG

✗ 4. ITXRB

Question ID : **630680304352**
Option 1 ID : **6306801183971**
Option 2 ID : **6306801183972**
Option 3 ID : **6306801183969**
Option 4 ID : **6306801183970**
Status : **Answered**
Chosen Option : **2**

Q.38 Which two numbers should be changed in the given expression to make it correct?

$38 \times 3 + 87 \div 2 - 51 = 54$

Ans
✓ 1. 2 and 3

✗ 2. 2 and 38

✗ 3. 51 and 87

✗ 4. 3 and 51

Question ID : **630680304372**
Option 1 ID : **6306801184050**
Option 2 ID : **6306801184051**
Option 3 ID : **6306801184052**
Option 4 ID : **6306801184049**
Status : **Answered**
Chosen Option : **1**

Q.39 One morning Tushar goes for jogging. He jogs for 5 m to the straight road, then turns towards his left and jogs for 10m. Then again he turns towards his left and jogs for 2m. He faces Sun this time. To which direction he starts jogging?

Ans
✓ 1. West

✗ 2. South

✗ 3. East

✗ 4. North

Question ID : **630680304357**
Option 1 ID : **6306801183992**
Option 2 ID : **6306801183991**
Option 3 ID : **6306801183990**
Option 4 ID : **6306801183989**
Status : **Answered**
Chosen Option : **1**

Q.40 If each digit of the number 204576 is replaced with its respective successor, what will be the addition of all the digits in the new number?

Ans ✔ 1. 30

✘ 2. 28

✘ 3. 39

✘ 4. 41

Question ID : **630680304350**
Option 1 ID : **6306801183963**
Option 2 ID : **6306801183962**
Option 3 ID : **6306801183964**
Option 4 ID : **6306801183961**
Status : **Answered**
Chosen Option : **1**

Q.41 Sohini goes to school after one week of sick leave. Now she has a class test after two days, on Saturday. On which day she lastly attended the class before her sick leave?

Ans ✘ 1. Tuesday

✘ 2. Thursday

✘ 3. Friday

✔ 4. Wednesday

Question ID : **630680304351**
Option 1 ID : **6306801183967**
Option 2 ID : **6306801183965**
Option 3 ID : **6306801183966**
Option 4 ID : **6306801183968**
Status : **Answered**
Chosen Option : **2**

Q.42 Given bar graph depicts the sales of books (in thousands) from three different branches of a publishing company in two different years. Consider the graph and answer the question that follows.
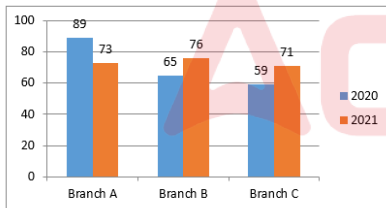
What is the ratio of the total sales from Branch B to the total sales from Branch C for both the years?

Ans ✘ 1. 130/141

✔ 2. 141/130

✘ 3. 76/71

✘ 4. 124/147

Question ID : **630680304375**
Option 1 ID : **6306801184061**
Option 2 ID : **6306801184063**
Option 3 ID : **6306801184064**
Option 4 ID : **6306801184062**
Status : **Answered**
Chosen Option : **2**

Q.43 Three of the four letter cluster-pairs are similar in some way and one is different. Select the odd term out.

Ans ✗ 1. CFHJ : DHKN

✗ 2. RTWZ : SVZD

✔ 3. PSTX : QQQT

✗ 4. EKNS : FMQW

Question ID : **630680304362**
Option 1 ID : **6306801184011**
Option 2 ID : **6306801184010**
Option 3 ID : **6306801184012**
Option 4 ID : **6306801184009**
Status : **Answered**
Chosen Option : **3**

Q.44 If at 2.15 P.M. a clock's minute hand indicates South, then at 7.45 A.M. to which direction will it indicate?

Ans ✗ 1. West

✗ 2. East

✔ 3. North

✗ 4. North West

Question ID : **630680304356**
Option 1 ID : **6306801183986**
Option 2 ID : **6306801183985**
Option 3 ID : **6306801183988**
Option 4 ID : **6306801183987**
Status : **Answered**
Chosen Option : **3**

Q.45 Given pie chart depicts number of plants (in percentage) in a garden. Consider the chart and answer the question that follows.
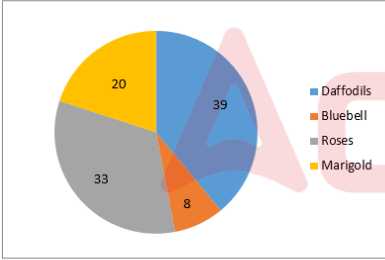
If there are 96 bluebell plants in the garden, then what is the number of rose plants?

Ans ✔ 1. 396

✗ 2. 224

✗ 3. 173

✗ 4. 266

Question ID : **630680304377**
Option 1 ID : **6306801184070**
Option 2 ID : **6306801184072**
Option 3 ID : **6306801184071**
Option 4 ID : **6306801184069**
Status : **Answered**
Chosen Option : **1**

Q.46 Two statements are given numbered I and II. There may be cause and effect relation between them. Consider the statements and find the correct option.

Statements:

I. Mother has taken away mobile phone from her son.

II. The son spends a lot of time on playing mobile games.

Ans ✗ 1. Both the statements are independent causes.

✗ 2. Both the statements are effects of some common cause.

✗ 3. Statement I is cause and statement II is its effect.

✔ 4. Statement II is cause and statement I is its effect.

Question ID : **630680304364**
Option 1 ID : **6306801184019**
Option 2 ID : **6306801184020**
Option 3 ID : **6306801184017**
Option 4 ID : **6306801184018**
Status : **Answered**
Chosen Option : **4**

Q.47 Students of a class are allowed to enter the classroom in the order of increasing height after morning assembly. Amisha is 4th to enter while Rashmi is 4th from last to enter. 14 Students enter between Amish and Rashmi How many students enter after Amisha?

Ans ✗ 1. 14

✗ 2. 21

✗ 3. 22

✔ 4. 18

Question ID : **630680304332**
Option 1 ID : **6306801183890**
Option 2 ID : **6306801183892**
Option 3 ID : **6306801183889**
Option 4 ID : **6306801183891**
Status : **Answered**
Chosen Option : **4**

Q.48 Two statements are given followed by two conclusions. Decide which of the conclusions logically follows from the given statements.

Statements:

Tushar is taller than Shikha.

Shikha is shorter than Shubhankar.

Conclusions:

I. Tushar is taller than Shubhankar.

II. Shubhankar is taller than Tushar.

Ans ✗ 1. Both the conclusions follow.

✔ 2. Neither conclusion I nor conclusion II follows.

✗ 3. Only conclusion I follows.

✗ 4. Only conclusion II follows.

Question ID : **630680304368**
Option 1 ID : **6306801184036**
Option 2 ID : **6306801184035**
Option 3 ID : **6306801184033**
Option 4 ID : **6306801184034**
Status : **Answered**
Chosen Option : **2**

Q.49 Seven friends A, B, C, D, E, F and G are of different ages. C is elder to E but younger to G. B is younger to D but elder to F. Who is definitely NOT the eldest?

Ans ✗ 1. G

✔ 2. F

✗ 3. A

✗ 4. D

Question ID : **630680304342**
Option 1 ID : **6306801183929**
Option 2 ID : **6306801183930**
Option 3 ID : **6306801183932**
Option 4 ID : **6306801183931**
Status : **Answered**
Chosen Option : **2**

Q.50 38 Students of a class are standing in a queue in the order of increasing height. Sheena is 14th from last and Ved is 13th from front. Roshan is standing at the middle most position between Sheena and Ved. How many students are there between Roshan and Sheena?

Ans ✗ 1. 7

✔ 2. 5

✗ 3. 6

✗ 4. 8

Question ID : **630680304331**
Option 1 ID : **6306801183887**
Option 2 ID : **6306801183885**
Option 3 ID : **6306801183886**
Option 4 ID : **6306801183888**
Status : **Answered**
Chosen Option : **1**

Section : **General Knowledge**

Q.1 In how many schools across the nation has the Youth Affairs and Sports Ministry hosted the 'Meet the Champion project'?

Ans ✗ 1. 42

✓ 2. 26

✗ 3. 37

✗ 4. 30

Question ID : **630680304395**
Option 1 ID : **6306801184144**
Option 2 ID : **6306801184141**
Option 3 ID : **6306801184143**
Option 4 ID : **6306801184142**
Status : **Answered**
Chosen Option : **3**

Q.2 The 74th Amendment Act pertaining to urban local government was passed during the regime of:

Ans ✗ 1. Morarji Desai

✗ 2. Chandra Shekhar

✓ 3. P.V. Narsimha Rao

✗ 4. V.P. Singh

Question ID : **630680304394**
Option 1 ID : **6306801184137**
Option 2 ID : **6306801184140**
Option 3 ID : **6306801184138**
Option 4 ID : **6306801184139**
Status : **Answered**
Chosen Option : **3**

Q.3 As per the Indian Constitution, what is the maximum number of members that can be nominated by the President in the council of states?

Ans ✗ 1. 15

✗ 2. 18

✗ 3. 20

✓ 4. 12

Question ID : **630680304391**
Option 1 ID : **6306801184126**
Option 2 ID : **6306801184127**
Option 3 ID : **6306801184128**
Option 4 ID : **6306801184125**
Status : **Answered**
Chosen Option : **1**

Q.4 Who was conferred the Men's Footballer of the Year for the year 2021-2022 by the All India Football Federation?

Ans ✗ 1. Suresh Singh

✗ 2. Anirudh Thapa

✗ 3. Mohammed Yasir

✓ 4. Sunil Chhetri

Question ID : **630680304396**
Option 1 ID : **6306801184147**
Option 2 ID : **6306801184146**
Option 3 ID : **6306801184145**
Option 4 ID : **6306801184148**
Status : **Answered**
Chosen Option : **4**

Q.5 In which year was the Ramakrishna Mission founded by Swami Vivekananda in Belur near Calcutta to promote the teachings of Vivekananda's Guru Ramakrishna Paramahamsa?

Ans ✓ 1. 1897

✗ 2. 1899

✗ 3. 1890

✗ 4. 1893

Question ID : **630680304380**
Option 1 ID : **6306801184081**
Option 2 ID : **6306801184084**
Option 3 ID : **6306801184082**
Option 4 ID : **6306801184083**
Status : **Answered**
Chosen Option : **1**

Q.6 Niccolò de' Conti was an Italian traveller and a merchant who visited Vijayanagara in the _____.

Ans ✗ 1. 13th Century

✓ 2. 14th Century

✗ 3. 16th Century

✗ 4. 15th Century

Question ID : **630680304379**
Option 1 ID : **6306801184080**
Option 2 ID : **6306801184077**
Option 3 ID : **6306801184079**
Option 4 ID : **6306801184078**
Status : **Answered**
Chosen Option : **2**

Q.7 Which of the following mountain peaks is located in the Rajaji Range of the Shivalik Hills in the state of Uttar Pradesh?

Ans ✗ 1. Dhupgarh

✗ 2. Pushpagiri

✓ 3. Amsot

✗ 4. Guru Shikhar

Question ID : **630680304385**
Option 1 ID : **6306801184102**
Option 2 ID : **6306801184104**
Option 3 ID : **6306801184103**
Option 4 ID : **6306801184101**
Status : **Answered**
Chosen Option : **1**

Q.8 When was the Jammu and Kashmir Official Languages Bill, 2020, passed in the Rajya Sabha?

Ans ✗ 1. 5 June 2020

✓ 2. 23 September 2020

✗ 3. 18 January 2020

✗ 4. 15 November 2020

Question ID : **630680304392**
Option 1 ID : **6306801184132**
Option 2 ID : **6306801184130**
Option 3 ID : **6306801184131**
Option 4 ID : **6306801184129**
Status : **Answered**
Chosen Option : **2**

Q.9 What was the rural and urban sex ratio, respectively, in Kerala, as per Census 2011?

Ans ✗ 1. 1078 and 1084

✓ 2. 1078 and 1091

✗ 3. 1084 and 1091

✗ 4. 1091 and 1084

Question ID : **630680304386**
Option 1 ID : **6306801184108**
Option 2 ID : **6306801184107**
Option 3 ID : **6306801184106**
Option 4 ID : **6306801184105**
Status : **Answered**
Chosen Option : **3**

Q.10 By which Constitutional Amendment Act is Part IX B mentioned in the Indian Constitution?

Ans ✗ 1. Constitution (Eighty-third Amendment) Act, 2000

✗ 2. Constitution (Seventh Amendment) Act, 1956

✓ 3. Constitution (Ninety-seventh Amendment) Act, 2011

✗ 4. Constitution (Seventy-fourth Amendment) Act, 1992

Question ID : **630680304393**
Option 1 ID : **6306801184135**
Option 2 ID : **6306801184136**
Option 3 ID : **6306801184134**
Option 4 ID : **6306801184133**
Status : **Answered**
Chosen Option : **3**

Q.11 Who was the viceroy of British India when the cabinet mission came to India?

Ans ✔ 1. Lord Wavell

   ✘ 2. Lord Willingdon

   ✘ 3. Lord Linlithgow

   ✘ 4. Lord Irwin

Question ID : **630680304381**
Option 1 ID : **6306801184087**
Option 2 ID : **6306801184085**
Option 3 ID : **6306801184086**
Option 4 ID : **6306801184088**
Status : **Answered**
Chosen Option : **4**

Q.12 How many bronze medals did India win in the Commonwealth Games 2022?

Ans ✘ 1. 21

   ✘ 2. 20

   ✘ 3. 22

   ✔ 4. 23

Question ID : **630680304397**
Option 1 ID : **6306801184150**
Option 2 ID : **6306801184149**
Option 3 ID : **6306801184151**
Option 4 ID : **6306801184152**
Status : **Answered**
Chosen Option : **3**

Q.13 From which country was the procedure of the Amendment of the Constitution adopted in the Indian Constitution?

Ans ✘ 1. France

   ✔ 2. South Africa

   ✘ 3. Ireland

   ✘ 4. Unites States of America

Question ID : **630680304390**
Option 1 ID : **6306801184123**
Option 2 ID : **6306801184124**
Option 3 ID : **6306801184122**
Option 4 ID : **6306801184121**
Status : **Answered**
Chosen Option : **1**

Q.14 Which river enters India at Kotia Ghat near Royal Bardiya National Park, Nepal Ganj, where it is known as the river Girwa for about 25 km?

Ans ✘ 1. Gandak

   ✘ 2. Kosi

   ✔ 3. Ghaghara

   ✘ 4. Tista

Question ID : **630680304384**
Option 1 ID : **6306801184100**
Option 2 ID : **6306801184097**
Option 3 ID : **6306801184098**
Option 4 ID : **6306801184099**
Status : **Answered**
Chosen Option : **2**

Q.15 The Kalinga major rock edict of Ashoka is found in present day:

Ans ✅ 1. Odisha

❌ 2. Gujarat

❌ 3. Maharashtra

❌ 4. Bihar

Question ID : **630680304382**
Option 1 ID : **6306801184091**
Option 2 ID : **6306801184090**
Option 3 ID : **6306801184089**
Option 4 ID : **6306801184092**
Status : **Answered**
Chosen Option : **1**

Q.16 In which State or UT is the Rapuru Railway Tunnel located?

Ans ❌ 1. West Bengal

✅ 2. Andhra Pradesh

❌ 3. Jammu and Kashmir

❌ 4. Himachal Pradesh

Question ID : **630680304388**
Option 1 ID : **6306801184116**
Option 2 ID : **6306801184113**
Option 3 ID : **6306801184115**
Option 4 ID : **6306801184114**
Status : **Answered**
Chosen Option : **3**

Q.17 In which Part of the Indian Constitution it is mentioned that "there shall be equality of opportunity for all citizens in matters relating to employment or appointment to any office under the State"?

Ans ❌ 1. Part IV

✅ 2. Part III

❌ 3. Part I

❌ 4. Part II

Question ID : **630680304389**
Option 1 ID : **6306801184119**
Option 2 ID : **6306801184117**
Option 3 ID : **6306801184120**
Option 4 ID : **6306801184118**
Status : **Answered**
Chosen Option : **2**

Q.18 The Prayag Prashasti also known as the Allahabad Pillar Inscription is composed in Sanskrit by Harisena who was the court poet of:

Ans ❌ 1. Kumargupta I

❌ 2. Chandragupta I

❌ 3. Skandgupta

✅ 4. Samudragupta

Question ID : **630680304383**
Option 1 ID : **6306801184096**
Option 2 ID : **6306801184093**
Option 3 ID : **6306801184094**
Option 4 ID : **6306801184095**
Status : **Answered**
Chosen Option : **2**

Q.19 To which of the following dynasties did Khizr Khan who ruled from 1414 to 1421 belong?

Ans ✗ 1. Lodi dynasty

✗ 2. Khalji dynasty

✗ 3. Tughluq dynasty

✓ 4. Sayyid dynasty

Question ID : **630680304378**
Option 1 ID : **6306801184073**
Option 2 ID : **6306801184075**
Option 3 ID : **6306801184076**
Option 4 ID : **6306801184074**
Status : **Answered**
Chosen Option : **1**

Q.20 As per Census 2011, _____ has the highest population of Scheduled tribes in India.

Ans ✗ 1. Rajasthan

✗ 2. Bihar

✓ 3. Madhya Pradesh

✗ 4. Mizoram

Question ID : **630680304387**
Option 1 ID : **6306801184112**
Option 2 ID : **6306801184109**
Option 3 ID : **6306801184111**
Option 4 ID : **6306801184110**
Status : **Answered**
Chosen Option : **3**

Section : **General English**

Q.1 Select the option that can replace the underlined word correctly. If you don't find any error, mark 'No error' as your answer.

Film buffs in Kerala will have their own personal favourites to pick <u>from</u> the extensive work of legendary French filmmaker Jean-Luc Godard.

Ans ✗ 1. out

✗ 2. up

✗ 3. by

✓ 4. No error

Question ID : **630680304427**
Option 1 ID : **6306801184270**
Option 2 ID : **6306801184271**
Option 3 ID : **6306801184269**
Option 4 ID : **6306801184272**
Status : **Answered**
Chosen Option : **4**

Q.2 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

A. This condition was honoured by all except Ajab Singh, who added columns to the fort that cast a shadow on the ascetic's house.
B. The angry sadhu's curse led to the ruin of the fort and the surrounding villages.
C. There was a sadhu, Guru Balu Nath, living on top of the hill on which Raja Bhagwant Singh built the fort.
D. His only condition for letting the fort be built there was that it should never cast a shadow on his dwelling.

Ans ✗ 1. DCBA

✔ 2. CDAB

✗ 3. CBAD

✗ 4. ADCB

Question ID : **630680304416**
Option 1 ID : **6306801184228**
Option 2 ID : **6306801184226**
Option 3 ID : **6306801184227**
Option 4 ID : **6306801184225**
Status : **Answered**
Chosen Option : **3**

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

Terse

Ans ✗ 1. Condensed

✗ 2. Succinct

✔ 3. Verbose

✗ 4. Laconic

Question ID : **630680304404**
Option 1 ID : **6306801184178**
Option 2 ID : **6306801184180**
Option 3 ID : **6306801184177**
Option 4 ID : **6306801184179**
Status : **Answered**
Chosen Option : **1**

Q.4 Select the option that can replace the underlined word correctly. If you don't find any error, mark 'No error' as your answer.

The real issues that the common man faces, have all been put <u>in</u> the back burner.

Ans ✔ 1. on

✗ 2. No error

✗ 3. behind

✗ 4. at

Question ID : **630680304428**
Option 1 ID : **6306801184274**
Option 2 ID : **6306801184276**
Option 3 ID : **6306801184275**
Option 4 ID : **6306801184273**
Status : **Answered**
Chosen Option : **1**

Q.5 Some words from the following sentence have been given as options. Select the option that contains a spelling error.

The flowering shrubs are the hunting ground of the munia birds, which come in flocks, chattering incesantly while they hop about.

Ans ✗ 1. chattering

✓ 2. incesantly

✗ 3. flowering

✗ 4. shrubs

Question ID : **630680304409**
Option 1 ID : **6306801184199**
Option 2 ID : **6306801184200**
Option 3 ID : **6306801184197**
Option 4 ID : **6306801184198**
Status : **Answered**
Chosen Option : **2**

Q.6 Some words from the following sentence have been given as options. Select the option that contains a spelling error.

The official was beaten after he detected pilfrage of petroleum products in Nashik district.

Ans ✓ 1. pilfrage

✗ 2. detected

✗ 3. petroleum

✗ 4. official

Question ID : **630680304413**
Option 1 ID : **6306801184215**
Option 2 ID : **6306801184214**
Option 3 ID : **6306801184216**
Option 4 ID : **6306801184213**
Status : **Answered**
Chosen Option : **1**

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

Tenacious

Ans ✗ 1. Afraid

✗ 2. Irresolute

✓ 3. Determined

✗ 4. Weak

Question ID : **630680304399**
Option 1 ID : **6306801184160**
Option 2 ID : **6306801184159**
Option 3 ID : **6306801184157**
Option 4 ID : **6306801184158**
Status : **Answered**
Chosen Option : **2**

Q.8 **Select the most appropriate synonym of the given word.**

Wane

Ans ✅ 1. Diminish

❌ 2. Ascend

❌ 3. Grow

❌ 4. Raise

Question ID : **630680304398**
Option 1 ID : **6306801184155**
Option 2 ID : **6306801184153**
Option 3 ID : **6306801184156**
Option 4 ID : **6306801184154**
Status : **Answered**
Chosen Option : **1**

Q.9 **Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.**

A. Purchasing water or waiting for the unreliable tanker, though costly, was the only alternative.
B. As a pre-teen on the cusp of getting married, Malti queued up for an hour with her mother before it was their turn at the hand pump.
C. The private wells of neighbours, though nearby, continue to be out of reach.
D. If the hand pump was broken/empty, they walked 2.5 kilometres to the public well that promised longer queues and worse quality, losing four-five hours to collect water.

Ans ❌ 1. ABCD

✅ 2. BDCA

❌ 3. ACBD

❌ 4. DCAB

Question ID : **630680304417**
Option 1 ID : **6306801184229**
Option 2 ID : **6306801184231**
Option 3 ID : **6306801184232**
Option 4 ID : **6306801184230**
Status : **Answered**
Chosen Option : **3**

Q.10 **Some words from the following sentence have been given as options. Select the option that contains a spelling error.**

Several Indians have ended their lives owing to harasment by recovery agents of unregulated digital lending apps mostly linked to entities based in China.

Ans ❌ 1. owing

✅ 2. harasment

❌ 3. unregulated

❌ 4. entities

Question ID : **630680304410**
Option 1 ID : **6306801184201**
Option 2 ID : **6306801184202**
Option 3 ID : **6306801184203**
Option 4 ID : **6306801184204**
Status : **Answered**
Chosen Option : **2**

Q.11 Some words from the following sentence have been given as options. Select the option that contains a spelling error.

Probe agencys are now cracking the whip on such apps that lure customers into debt traps by offering quick loans.

Ans ✗ 1. whip

✗ 2. lure

✓ 3. agencys

✗ 4. cracking

Question ID : **630680304412**
Option 1 ID : **6306801184211**
Option 2 ID : **6306801184212**
Option 3 ID : **6306801184209**
Option 4 ID : **6306801184210**
Status : **Answered**
Chosen Option : **3**

Q.12 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

A. Domestic drudgery threatens women's physical safety.
B. Though women bear these burdens for their family, drudgery also means less time devoted to childcare.
C. It also affects women from an early age.
D. It has severe consequences: exhaustion, musculoskeletal disorders, lower immunity, and higher mental stress.

Ans ✗ 1. CABD

✗ 2. DBCA

✗ 3. BCDA

✓ 4. ACDB

Question ID : **630680304418**
Option 1 ID : **6306801184236**
Option 2 ID : **6306801184235**
Option 3 ID : **6306801184234**
Option 4 ID : **6306801184233**
Status : **Answered**
Chosen Option : **4**

Q.13 Select the most appropriate ANTONYM of the given word.

Munificent

Ans ✗ 1. Liberal

✓ 2. Uncharitable

✗ 3. Bounteous

✗ 4. Magnanimous

Question ID : **630680304408**
Option 1 ID : **6306801184194**
Option 2 ID : **6306801184193**
Option 3 ID : **6306801184196**
Option 4 ID : **6306801184195**
Status : **Answered**
Chosen Option : **1**

Q.14 Some words from the following sentence have been given as options. Select the option that contains a spelling error.

Once they reach their destinations, the distance and valocity of the birds are measured to determine the winner of the race.

Ans ✗ 1. destinations

✓ 2. valocity

✗ 3. measured

✗ 4. determine

Question ID : **630680304411**
Option 1 ID : **6306801184205**
Option 2 ID : **6306801184206**
Option 3 ID : **6306801184207**
Option 4 ID : **6306801184208**
Status : **Answered**
Chosen Option : **2**

Q.15 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

A. "Your booked speaker has not come and so I propose to engage you for the next three hours. Please tell me what topic you would like me to speak?"
B. Glum with hearing departmental subjects, I proposed a simple topic, which looked silly for the occasion, amid explosive laughter of the class members.
C. My interest in public speaking started to grow the day I happened to listen to an unscheduled lecture by the chief of a training institution a few decades ago.
D. We trainees stood up bewildered when he entered our class suddenly one day and spoke in his metallic voice.

Ans ✗ 1. ABCD

✓ 2. CDAB

✗ 3. DBCA

✗ 4. CABD

Question ID : **630680304424**
Option 1 ID : **6306801184257**
Option 2 ID : **6306801184258**
Option 3 ID : **6306801184259**
Option 4 ID : **6306801184260**
Status : **Answered**
Chosen Option : **4**

Q.16 Select the most appropriate ANTONYM of the given word.

Vilify

Ans ✗ 1. Berate

✗ 2. Abuse

✓ 3. Glorify

✗ 4. Disparage

Question ID : **630680304405**
Option 1 ID : **6306801184181**
Option 2 ID : **6306801184182**
Option 3 ID : **6306801184183**
Option 4 ID : **6306801184184**
Status : **Answered**
Chosen Option : **1**

Q.17 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

A. He is like the millions of young men and women whose earnings were cruelly hit by the pandemic.
B. With the remarkable resilience of most of these people with no regular job, Manju turned to supplying flowers to supplement his income from sundry jobs.
C. He lives not far from our home.
D. Manju is a young man.

Ans ✗ 1. CADB

✓ 2. DCAB

✗ 3. ABCD

✗ 4. CBDA

Question ID : **630680304421**
Option 1 ID : **6306801184248**
Option 2 ID : **6306801184246**
Option 3 ID : **6306801184245**
Option 4 ID : **6306801184247**
Status : **Answered**
Chosen Option : **2**

Q.18 Select the most appropriate option to fill in the blanks.

She pointed _____ a cottage at the back of _____ the garden _____ the house.

Ans ✗ 1. at; in; at

✓ 2. to; of; behind

✗ 3. to; into; to

✗ 4. into; in; behind

Question ID : **630680304435**
Option 1 ID : **6306801184302**
Option 2 ID : **6306801184301**
Option 3 ID : **6306801184303**
Option 4 ID : **6306801184304**
Status : **Answered**
Chosen Option : **1**

Q.19 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

A. Nikolai Gogol, the great 19th Century Russian writer, was a Ukrainian.
B. I vaguely remembered the story and how it had overwhelmed me with the sad and bizarre plight of a petty government clerk.
C. I didn't know that. I read it in an article in the wake of the Russia-Ukraine conflict.
D. And I found myself smiling at the memory of my first encounter with Gogol's story The Overcoat, when I was barely 20.

Ans ✗ 1. BCAD

✗ 2. BACD

✗ 3. CDBA

✓ 4. ACDB

Question ID : **630680304423**
Option 1 ID : **6306801184253**
Option 2 ID : **6306801184255**
Option 3 ID : **6306801184254**
Option 4 ID : **6306801184256**
Status : **Answered**
Chosen Option : **1**

Q.20 **Select the most appropriate option to fill in the blanks.**

He has difficulties _____ his memory.

Ans ✗ 1. from

✔ 2. with

✗ 3. of

✗ 4. about

Question ID : **630680304436**
Option 1 ID : **6306801184307**
Option 2 ID : **6306801184306**
Option 3 ID : **6306801184305**
Option 4 ID : **6306801184308**
Status : **Answered**
Chosen Option : **3**

Q.21 **Select the option that can replace the underlined word correctly. If you don't find any error, mark 'No error' as your answer.**

The authorities erected barricades <u>through</u> the pavements in the vicinity of Buckingham Palace.

Ans ✗ 1. No error

✗ 2. from

✗ 3. by

✔ 4. along

Question ID : **630680304429**
Option 1 ID : **6306801184280**
Option 2 ID : **6306801184279**
Option 3 ID : **6306801184278**
Option 4 ID : **6306801184277**
Status : **Answered**
Chosen Option : **4**

Q.22 **Select the most appropriate synonym of the given word.**

Nonchalant

Ans ✗ 1. Energetic

✗ 2. Impassioned

✔ 3. Lackadaisical

✗ 4. Agile

Question ID : **630680304402**
Option 1 ID : **6306801184170**
Option 2 ID : **6306801184172**
Option 3 ID : **6306801184171**
Option 4 ID : **6306801184169**
Status : **Answered**
Chosen Option : **2**

Q.23 Select the most appropriate option to fill in the blanks.

My father had no interest _____ what people wore and even less _____ his own appearance.

Ans ✅ 1. in; in

❌ 2. into; in

❌ 3. at; in

❌ 4. in; at

Question ID : **630680304437**
Option 1 ID : **6306801184310**
Option 2 ID : **6306801184312**
Option 3 ID : **6306801184309**
Option 4 ID : **6306801184311**
Status : **Answered**
Chosen Option : **4**

Q.24 Select the most appropriate ANTONYM of the given word.

Palatable

Ans ✅ 1. Repulsive

❌ 2. Delectable

❌ 3. Tempting

❌ 4. Appetising

Question ID : **630680304403**
Option 1 ID : **6306801184176**
Option 2 ID : **6306801184175**
Option 3 ID : **6306801184173**
Option 4 ID : **6306801184174**
Status : **Answered**
Chosen Option : **4**

Q.25 Select the most appropriate synonym of the given word.

Squalid

Ans ✅ 1. Fetid

❌ 2. Honourable

❌ 3. Sterile

❌ 4. Bright

Question ID : **630680304401**
Option 1 ID : **6306801184167**
Option 2 ID : **6306801184168**
Option 3 ID : **6306801184166**
Option 4 ID : **6306801184165**
Status : **Answered**
Chosen Option : **3**

Q.26 Select the most appropriate option to fill in the blanks.

_____ the two wicket-keepers in the Indian team _____ the World T20 in Australia next month, one has his role clear-cut while the other is still working it out.

Ans ✗ 1. By; for

✗ 2. With; of

✗ 3. Between; of

✓ 4. Of; for

Question ID : **630680304434**
Option 1 ID : **6306801184297**
Option 2 ID : **6306801184299**
Option 3 ID : **6306801184298**
Option 4 ID : **6306801184300**
Status : **Answered**
Chosen Option : **1**

Q.27 Some words from the following sentence have been given as options. Select the option that contains a spelling error.

In a 10-day long operation across 22 cities, 30 people were arrested while 35 others were issued warrants and asked to join the probe for duping over 200 people on the pretect of paying their electricity bills.

Ans ✗ 1. electricity

✗ 2. operation

✓ 3. pretect

✗ 4. warrants

Question ID : **630680304415**
Option 1 ID : **6306801184224**
Option 2 ID : **6306801184221**
Option 3 ID : **6306801184223**
Option 4 ID : **6306801184222**
Status : **Answered**
Chosen Option : **3**

Q.28 Select the option that can replace the underlined word correctly. If you don't find any error, mark 'No error' as your answer.

Which monarch was the most featured woman by a banknote worldwide?

Ans ✗ 1. outside

✗ 2. in

✓ 3. on

✗ 4. No error

Question ID : **630680304430**
Option 1 ID : **6306801184282**
Option 2 ID : **6306801184281**
Option 3 ID : **6306801184283**
Option 4 ID : **6306801184284**
Status : **Answered**
Chosen Option : **2**

Q.29 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

A. She was a daughter of Zeus, the chief God of the Olympians, who ruled the world from the summit of Mount Olympus.
B. Artemis was a virgin goddess of the wilderness and hunting and her independence and strength have long inspired women in a wide range of activities.
C. She was also the twin sister of Apollo, God of the Sun and oracles.
D. Artemis was a major deity in ancient Greece, worshiped at least as early as the beginning of the first millennium BC, or even earlier.

Ans   ✗ 1. ABCD

✔ 2. DACB

✗ 3. CBDA

✗ 4. CABD

Question ID : **630680304419**
Option 1 ID : **6306801184237**
Option 2 ID : **6306801184239**
Option 3 ID : **6306801184240**
Option 4 ID : **6306801184238**
Status : **Answered**
Chosen Option : **2**

Q.30 Some words from the following sentence have been given as options. Select the option that contains a spelling error.

A woman fought off a juvinile who attempted to snatch her mobile phone in south-East Delhi's Badarpur, the police said. The snatcher has been apprehended.

Ans   ✗ 1. attempted

✔ 2. juvinile

✗ 3. snatch

✗ 4. apprehended

Question ID : **630680304414**
Option 1 ID : **6306801184218**
Option 2 ID : **6306801184217**
Option 3 ID : **6306801184219**
Option 4 ID : **6306801184220**
Status : **Answered**
Chosen Option : **2**

Q.31 Select the most appropriate option to fill in the blanks.

Squid Game, the bold South Korean drama is_____ the idle rich turning the poor _____ entertainment fodder.

Ans   ✗ 1. for; among

✔ 2. about; into

✗ 3. by; into

✗ 4. from; in

Question ID : **630680304433**
Option 1 ID : **6306801184296**
Option 2 ID : **6306801184294**
Option 3 ID : **6306801184293**
Option 4 ID : **6306801184295**
Status : **Answered**
Chosen Option : **2**

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

Rout

Ans ✗ 1. Triumph

✗ 2. Miracle

✔ 3. Debacle

✗ 4. Win

Question ID : **630680304400**
Option 1 ID : **6306801184161**
Option 2 ID : **6306801184164**
Option 3 ID : **6306801184162**
Option 4 ID : **6306801184163**
Status : **Answered**
Chosen Option : **3**

Q.33 **Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.**

A. It beats video games any day.
B. They wait for an unwary fish to poke its head above the sluggishly moving water.
C. An irrigation canal runs along one side of our property and kingfishers often sit patiently on the wall.
D. Then there's a sudden dart of brilliant blue, followed by a triumphant rise with a glint of silver in the bird's beak.

Ans ✗ 1. DABC

✗ 2. ACDB

✔ 3. CBDA

✗ 4. CABD

Question ID : **630680304425**
Option 1 ID : **6306801184262**
Option 2 ID : **6306801184263**
Option 3 ID : **6306801184261**
Option 4 ID : **6306801184264**
Status : **Answered**
Chosen Option : **3**

Q.34 **Select the option that can replace the underlined word correctly. If you don't find any error, mark 'No error' as your answer.**

Compared to the impressive main house, the cottage was modest <u>of</u> the point of being shabby.

Ans ✗ 1. at

✗ 2. by

✔ 3. to

✗ 4. No error

Question ID : **630680304432**
Option 1 ID : **6306801184290**
Option 2 ID : **6306801184289**
Option 3 ID : **6306801184291**
Option 4 ID : **6306801184292**
Status : **Answered**
Chosen Option : **2**

Q.35 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

A. They were able to decipher the messages the landscape was communicating with them through its inhabitants.
B. For their project 'Ears to the ground', musicians Krishna Jhaveri and Sanaya Ardeshir travelled through the Western Ghats recording natural sounds from the wild and interviewing people living in these landscapes.
C. During their journey, they learned of the mountains' unique ecology and through 'deep listening'.
D. Over an almost three-month-long journey, Krishna and Sanaya, armed with field recorders, listened to the sounds of one of the world's oldest mountain ranges.

Ans   ✗ 1. ABDC

✗ 2. BACD

✔ 3. BDCA

✗ 4. CDBA

Question ID : **630680304420**
Option 1 ID : **6306801184242**
Option 2 ID : **6306801184244**
Option 3 ID : **6306801184241**
Option 4 ID : **6306801184243**
Status : **Answered**
Chosen Option : **3**

Q.36 Select the most appropriate ANTONYM of the given word.

Spurious

Ans   ✗ 1. Phony

✗ 2. Fake

✔ 3. Genuine

✗ 4. Counterfeit

Question ID : **630680304406**
Option 1 ID : **6306801184188**
Option 2 ID : **6306801184186**
Option 3 ID : **6306801184185**
Option 4 ID : **6306801184187**
Status : **Answered**
Chosen Option : **3**

Q.37 Select the option that can replace the underlined word correctly. If you don't find any error, mark 'No error' as your answer.

The city police made arrests <u>for</u> protesting against the authorities.

Ans   ✗ 1. across

✔ 2. No error

✗ 3. by

✗ 4. from

Question ID : **630680304431**
Option 1 ID : **6306801184287**
Option 2 ID : **6306801184288**
Option 3 ID : **6306801184285**
Option 4 ID : **6306801184286**
Status : **Answered**
Chosen Option : **2**

Q.38 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

A. This is 2022, and over the two bygone years, social media has well outgrown the raison d'etre for its emergence, that is 'connectivity'.
B. Not only that, your profile reflects your 'social media personality', that said, is there such a thing as a 'social media personality' distinct from your real self?
C. Unfortunately, most users project an image of themselves which is far removed from their true self.
D. Now it is a potential tool to find you new jobs, bring you the top news of the day, crack you with memes and trolls, pontificate your thoughts or even find your prince or princess charming.

Ans ✗ 1. ACBD

✗ 2. BADC

✗ 3. DCBA

✔ 4. ADBC

Question ID : **630680304422**
Option 1 ID : **6306801184249**
Option 2 ID : **6306801184252**
Option 3 ID : **6306801184250**
Option 4 ID : **6306801184251**
Status : **Answered**
Chosen Option : **4**

Q.39 Select the option that can replace the underlined word correctly. If you don't find any error, mark 'No error' as your answer.

A Class VI student, was returning home from school <u>for her</u> two friends when the incident took place.

Ans ✗ 1. to

✔ 2. with

✗ 3. No error

✗ 4. between

Question ID : **630680304426**
Option 1 ID : **6306801184265**
Option 2 ID : **6306801184266**
Option 3 ID : **6306801184268**
Option 4 ID : **6306801184267**
Status : **Answered**
Chosen Option : **2**

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

Decipher

Ans ✗ 1. Elucidate

✗ 2. Interpret

✗ 3. Construe

✔ 4. Conceal

Question ID : **630680304407**
Option 1 ID : **6306801184191**
Option 2 ID : **6306801184189**
Option 3 ID : **6306801184192**
Option 4 ID : **6306801184190**
Status : **Answered**
Chosen Option : **2**

Comprehension:

Read the given passage and answer the questions that follow.

Unlike conventional pigeon races, wherein the finishing points differ, One Loft Races have the same starting and finishing points. Pigeons, typically less than six weeks old, are taken to the special loft to be used for the event before they can fly. The birds then slowly learn to fly and recognise this loft as their home. The training, food, and conditions are the same for all the birds. With the usage of electronic timing systems, the winners of One Loft Races are decided by as little as 100th of a second.

It is a smoggy April morning in Signature Bridge, Delhi. Three men unshackle 26 trained homing pigeons kept in two rectangular cages on an empty ground. Two more men hold a banner that says Karnataka Homing Pigeon Federation in English and Kannada. As both the cages are simultaneously opened, the birds slowly walk out, flap their wings and take off. From this starting point, where they have never been before, they need to find their way back to their respective lofts, over 1,500 kilometres away. Once they reach their destinations, the distance and velocity of the birds are measured to determine the winner of the race.

Among the participants is Red Rocket, a three-year-old grey-headed pigeon with a white-and-brown plume. Like his competitors, he, too, bears a red seal on his wings and two rubber bands on his legs. After nine days of flight, on April 24, 2022, the pigeon reaches his loft at Shanker V's residence in Hennur Gardens, Bengaluru. Shanker, a pigeon fancier, immediately removes the bands from his bird's legs to reveal an identification number. He clicks a photo and sends it to the organisers, who verify the numbers, measure the distance covered and the velocity of its flight.

Red Rocket, they announce, has flown 1,741 kilometres at 251 metres per minute, making him the winner. The pigeon had never been this far from his nest. Yet, he does what he always has: find his way back home.

This extraordinary capability is a result of magnetoreception, wherein animals and birds orient and navigate using the earth's magnetic field. At one point, humans selectively bred pigeons for their extraordinary ability. This led to the creation of a breed of homing pigeons, used for communication and later racing.

SubQuestion No : 41

Q.41 **Select the option that is true according to the passage.**

Ans ✅ 1. In traditional pigeon races the finishing points are not the same.

❌ 2. In One Loft Race the winners are decided by a tenth of a second.

❌ 3. Adult pigeons participate in One Loft Race.

❌ 4. The pigeons raised in the same loft recognise their loft very early in their training.

Question ID : **630680304440**
Option 1 ID : **6306801184317**
Option 2 ID : **6306801184319**
Option 3 ID : **6306801184318**
Option 4 ID : **6306801184320**
Status : **Answered**
Chosen Option : **4**

Comprehension:

Read the given passage and answer the questions that follow.

Unlike conventional pigeon races, wherein the finishing points differ, One Loft Races have the same starting and finishing points. Pigeons, typically less than six weeks old, are taken to the special loft to be used for the event before they can fly. The birds then slowly learn to fly and recognise this loft as their home. The training, food, and conditions are the same for all the birds. With the usage of electronic timing systems, the winners of One Loft Races are decided by as little as 100th of a second.

It is a smoggy April morning in Signature Bridge, Delhi. Three men unshackle 26 trained homing pigeons kept in two rectangular cages on an empty ground. Two more men hold a banner that says Karnataka Homing Pigeon Federation in English and Kannada. As both the cages are simultaneously opened, the birds slowly walk out, flap their wings and take off. From this starting point, where they have never been before, they need to find their way back to their respective lofts, over 1,500 kilometres away. Once they reach their destinations, the distance and velocity of the birds are measured to determine the winner of the race.

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Red Rocket, they announce, has flown 1,741 kilometres at 251 metres per minute, making him the winner. The pigeon had never been this far from his nest. Yet, he does what he always has: find his way back home.

This extraordinary capability is a result of magnetoreception, wherein animals and birds orient and navigate using the earth's magnetic field. At one point, humans selectively bred pigeons for their extraordinary ability. This led to the creation of a breed of homing pigeons, used for communication and later racing.

SubQuestion No : 42

Q.42 This extraordinary capability is a result of magnetoreception….

What does 'this extraordinary capability' refer to?

Ans ✗ 1. Using magnetoreception for communication.

✗ 2. Humans selectively breeding pigeons for racing.

✅ 3. Pigeons travelling very long distances and coming back to their homes.

✗ 4. Using magnetoreception for racing.

Question ID : **630680304443**
Option 1 ID : **6306801184330**
Option 2 ID : **6306801184332**
Option 3 ID : **6306801184329**
Option 4 ID : **6306801184331**
Status : **Answered**
Chosen Option : **3**

Comprehension:

Read the given passage and answer the questions that follow.

Unlike conventional pigeon races, wherein the finishing points differ, One Loft Races have the same starting and finishing points. Pigeons, typically less than six weeks old, are taken to the special loft to be used for the event before they can fly. The birds then slowly learn to fly and recognise this loft as their home. The training, food, and conditions are the same for all the birds. With the usage of electronic timing systems, the winners of One Loft Races are decided by as little as 100th of a second.

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Among the participants is Red Rocket, a three-year-old grey-headed pigeon with a white-and-brown plume. Like his competitors, he, too, bears a red seal on his wings and two rubber bands on his legs. After nine days of flight, on April 24, 2022, the pigeon reaches his loft at Shanker V's residence in Hennur Gardens, Bengaluru. Shanker, a pigeon fancier, immediately removes the bands from his bird's legs to reveal an identification number. He clicks a photo and sends it to the organisers, who verify the numbers, measure the distance covered and the velocity of its flight.

Red Rocket, they announce, has flown 1,741 kilometres at 251 metres per minute, making him the winner. The pigeon had never been this far from his nest. Yet, he does what he always has: find his way back home.

This extraordinary capability is a result of magnetoreception, wherein animals and birds orient and navigate using the earth's magnetic field. At one point, humans selectively bred pigeons for their extraordinary ability. This led to the creation of a breed of homing pigeons, used for communication and later racing.

SubQuestion No : 43

Q.43 **Select the option that completes the statement correctly.**

The race is called One Loft Race because all the pigeons are:

Ans   ✗ 1. tracked by using an electronic timing device

✗ 2. given the same training and food

✗ 3. less than six weeks old

✔ 4. raised and trained in the same loft

Question ID : **630680304439**
Option 1 ID : **6306801184316**
Option 2 ID : **6306801184314**
Option 3 ID : **6306801184313**
Option 4 ID : **6306801184315**
Status : **Answered**
Chosen Option : **2**

Comprehension:

Read the given passage and answer the questions that follow.

Unlike conventional pigeon races, wherein the finishing points differ, One Loft Races have the same starting and finishing points. Pigeons, typically less than six weeks old, are taken to the special loft to be used for the event before they can fly. The birds then slowly learn to fly and recognise this loft as their home. The training, food, and conditions are the same for all the birds. With the usage of electronic timing systems, the winners of One Loft Races are decided by as little as 100th of a second.

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This extraordinary capability is a result of magnetoreception, wherein animals and birds orient and navigate using the earth's magnetic field. At one point, humans selectively bred pigeons for their extraordinary ability. This led to the creation of a breed of homing pigeons, used for communication and later racing.

SubQuestion No : 44

Q.44 **Select the option that completes the statement correctly.**

A homing pigeon is one that:

Ans ✅ 1. finds its way back to its loft

❌ 2. never leaves its loft

❌ 3. travels a great distance in one go

❌ 4. is kept as a pet at home

Question ID : **630680304442**
Option 1 ID : **6306801184327**
Option 2 ID : **6306801184326**
Option 3 ID : **6306801184328**
Option 4 ID : **6306801184325**
Status : **Answered**
Chosen Option : **4**

Comprehension:

Read the given passage and answer the questions that follow.

Unlike conventional pigeon races, wherein the finishing points differ, One Loft Races have the same starting and finishing points. Pigeons, typically less than six weeks old, are taken to the special loft to be used for the event before they can fly. The birds then slowly learn to fly and recognise this loft as their home. The training, food, and conditions are the same for all the birds. With the usage of electronic timing systems, the winners of One Loft Races are decided by as little as 100th of a second.

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This extraordinary capability is a result of magnetoreception, wherein animals and birds orient and navigate using the earth's magnetic field. At one point, humans selectively bred pigeons for their extraordinary ability. This led to the creation of a breed of homing pigeons, used for communication and later racing.

SubQuestion No : 45

Q.45 **All options are synonyms of 'unshackle'. Select the option that is correct as used in the passage.**

Ans ✗ 1. Discharge

✓ 2. Release

✗ 3. Spare

✗ 4. Clear

Question ID : **630680304441**
Option 1 ID : **6306801184324**
Option 2 ID : **6306801184322**
Option 3 ID : **6306801184321**
Option 4 ID : **6306801184323**
Status : **Answered**
Chosen Option : **3**

Comprehension:

Read the given passage and answer the questions that follow.

At an exhibition, one of the several taking place in Kolkata to mark 75 years of India's Independence, the organisers placed a bundle of postcards and a handful of pens on a large table and asked visitors to write down their family memories of that defining moment in history. What has emerged is a still-growing collection of heart-warming as well as heart-wrenching stories that may not be found in history books but are still a valuable part of history. "My late grandfather's account of 15th August is rather funny," wrote Gangotri Chattopadhyay from Singur in her message. "A bunch of village kids with no money or resources stole a bunch of gamchha (thin cotton towel) and hoisted them on a bunch of sticks and ran through the rice fields, overjoyed about a free India. It is the spirit that counts." Ms. Chattopadhyay's is among the nearly 600 postcards that the DAG, or Delhi Art Gallery, has collected so far from its ongoing exhibition, 'March to Freedom', being held at the Indian Museum. The exhibition, showcasing 200 years of art, began on July 23 and will end on September 18. In one gallery, a poster asks: "Do you know what your parents were doing on August 15, 1947? What are your family memories or experiences from the time of India's independence?" The response has been unexpected, what with fresh blank postcards and pens at hand. Diyaa's family memories go back to a painful period before Independence - the Bengal famine of 1943 and the Second World War - when her paternal grandmother, a little girl at the time, remembered the family eating rice with salt because everything else was unaffordable. The grandmother would narrate such stories "in the flicker of candlelight back when power cuts plagued Bengal in the early 2000s". At first, I wondered whether people would respond thoughtfully to the prompt but I was pleasantly surprised to see how much care people had taken to record their family stories. Like we had hoped, what emerges is the story of ordinary people who don't find a place in our history books but who grappled with the idea of becoming citizens of a new nation in myriad ways.

SubQuestion No : 46

Q.46 Select the option that is the meaning of the word 'myriad' as it is used in the passage.

Ans ✗ 1. Diversified

✗ 2. Enormous

✓ 3. Countless

✗ 4. Huge

Comprehension:

Read the given passage and answer the questions that follow.

At an exhibition, one of the several taking place in Kolkata to mark 75 years of India's Independence, the organisers placed a bundle of postcards and a handful of pens on a large table and asked visitors to write down their family memories of that defining moment in history. What has emerged is a still-growing collection of heart-warming as well as heart-wrenching stories that may not be found in history books but are still a valuable part of history. "My late grandfather's account of 15th August is rather funny," wrote Gangotri Chattopadhyay from Singur in her message. "A bunch of village kids with no money or resources stole a bunch of gamchha (thin cotton towel) and hoisted them on a bunch of sticks and ran through the rice fields, overjoyed about a free India. It is the spirit that counts." Ms. Chattopadhyay's is among the nearly 600 postcards that the DAG, or Delhi Art Gallery, has collected so far from its ongoing exhibition, 'March to Freedom', being held at the Indian Museum. The exhibition, showcasing 200 years of art, began on July 23 and will end on September 18. In one gallery, a poster asks: "Do you know what your parents were doing on August 15, 1947? What are your family memories or experiences from the time of India's independence?" The response has been unexpected, what with fresh blank postcards and pens at hand. Diyaa's family memories go back to a painful period before Independence - the Bengal famine of 1943 and the Second World War - when her paternal grandmother, a little girl at the time, remembered the family eating rice with salt because everything else was unaffordable. The grandmother would narrate such stories "in the flicker of candlelight back when power cuts plagued Bengal in the early 2000s". At first, I wondered whether people would respond thoughtfully to the prompt but I was pleasantly surprised to see how much care people had taken to record their family stories. Like we had hoped, what emerges is the story of ordinary people who don't find a place in our history books but who grappled with the idea of becoming citizens of a new nation in myriad ways.

SubQuestion No : 47

Q.47 Select the statement that is NOT true according to the passage.

Ans ✅ 1. People only wrote stories about famine and poverty.

✗ 2. The stories recounted are not part of any history books.

✗ 3. 'March to freedom' displayed 200 hundred years of art.

✗ 4. People wrote stories that were both touching and agonising.

Question ID : **630680304449**
Option 1 ID : **6306801184350**
Option 2 ID : **6306801184352**
Option 3 ID : **6306801184351**
Option 4 ID : **6306801184349**
Status : **Answered**
Chosen Option : **1**

Comprehension:

Read the given passage and answer the questions that follow.

At an exhibition, one of the several taking place in Kolkata to mark 75 years of India's Independence, the organisers placed a bundle of postcards and a handful of pens on a large table and asked visitors to write down their family memories of that defining moment in history. What has emerged is a still-growing collection of heart-warming as well as heart-wrenching stories that may not be found in history books but are still a valuable part of history. "My late grandfather's account of 15th August is rather funny," wrote Gangotri Chattopadhyay from Singur in her message. "A bunch of village kids with no money or resources stole a bunch of gamchha (thin cotton towel) and hoisted them on a bunch of sticks and ran through the rice fields, overjoyed about a free India. It is the spirit that counts." Ms. Chattopadhyay's is among the nearly 600 postcards that the DAG, or Delhi Art Gallery, has collected so far from its ongoing exhibition, 'March to Freedom', being held at the Indian Museum. The exhibition, showcasing 200 years of art, began on July 23 and will end on September 18. In one gallery, a poster asks: "Do you know what your parents were doing on August 15, 1947? What are your family memories or experiences from the time of India's independence?" The response has been unexpected, what with fresh blank postcards and pens at hand. Diyaa's family memories go back to a painful period before Independence - the Bengal famine of 1943 and the Second World War - when her paternal grandmother, a little girl at the time, remembered the family eating rice with salt because everything else was unaffordable. The grandmother would narrate such stories "in the flicker of candlelight back when power cuts plagued Bengal in the early 2000s". At first, I wondered whether people would respond thoughtfully to the prompt but I was pleasantly surprised to see how much care people had taken to record their family stories. Like we had hoped, what emerges is the story of ordinary people who don't find a place in our history books but who grappled with the idea of becoming citizens of a new nation in myriad ways.

SubQuestion No : 48

Q.48 **Select the phrase in the passage which means the same as 'critically important'.**

Ans   ✗ 1. Valuable part of history

    ✗ 2. The spirit that counts

    ✗ 3. Becoming citizens of a new nation

    ✔ 4. Defining moment

Question ID : **630680304445**
Option 1 ID : **6306801184334**
Option 2 ID : **6306801184335**
Option 3 ID : **6306801184336**
Option 4 ID : **6306801184333**
Status : **Answered**
Chosen Option : **2**

Comprehension:

Read the given passage and answer the questions that follow.

At an exhibition, one of the several taking place in Kolkata to mark 75 years of India's Independence, the organisers placed a bundle of postcards and a handful of pens on a large table and asked visitors to write down their family memories of that defining moment in history. What has emerged is a still-growing collection of heart-warming as well as heart-wrenching stories that may not be found in history books but are still a valuable part of history. "My late grandfather's account of 15th August is rather funny," wrote Gangotri Chattopadhyay from Singur in her message. "A bunch of village kids with no money or resources stole a bunch of gamchha (thin cotton towel) and hoisted them on a bunch of sticks and ran through the rice fields, overjoyed about a free India. It is the spirit that counts." Ms. Chattopadhyay's is among the nearly 600 postcards that the DAG, or Delhi Art Gallery, has collected so far from its ongoing exhibition, 'March to Freedom', being held at the Indian Museum. The exhibition, showcasing 200 years of art, began on July 23 and will end on September 18. In one gallery, a poster asks: "Do you know what your parents were doing on August 15, 1947? What are your family memories or experiences from the time of India's independence?" The response has been unexpected, what with fresh blank postcards and pens at hand. Diyaa's family memories go back to a painful period before Independence - the Bengal famine of 1943 and the Second World War - when her paternal grandmother, a little girl at the time, remembered the family eating rice with salt because everything else was unaffordable. The grandmother would narrate such stories "in the flicker of candlelight back when power cuts plagued Bengal in the early 2000s". At first, I wondered whether people would respond thoughtfully to the prompt but I was pleasantly surprised to see how much care people had taken to record their family stories. Like we had hoped, what emerges is the story of ordinary people who don't find a place in our history books but who grappled with the idea of becoming citizens of a new nation in myriad ways.

SubQuestion No : 49

Q.49 The kids hoisting gamchhas on sticks shows their:

Ans   ✗ 1. mischief

   ✔ 2. resourcefulness

   ✗ 3. bravery

   ✗ 4. playfulness

Comprehension:

Read the given passage and answer the questions that follow.

At an exhibition, one of the several taking place in Kolkata to mark 75 years of India's Independence, the organisers placed a bundle of postcards and a handful of pens on a large table and asked visitors to write down their family memories of that defining moment in history. What has emerged is a still-growing collection of heart-warming as well as heart-wrenching stories that may not be found in history books but are still a valuable part of history. "My late grandfather's account of 15th August is rather funny," wrote Gangotri Chattopadhyay from Singur in her message. "A bunch of village kids with no money or resources stole a bunch of gamchha (thin cotton towel) and hoisted them on a bunch of sticks and ran through the rice fields, overjoyed about a free India. It is the spirit that counts." Ms. Chattopadhyay's is among the nearly 600 postcards that the DAG, or Delhi Art Gallery, has collected so far from its ongoing exhibition, 'March to Freedom', being held at the Indian Museum. The exhibition, showcasing 200 years of art, began on July 23 and will end on September 18. In one gallery, a poster asks: "Do you know what your parents were doing on August 15, 1947? What are your family memories or experiences from the time of India's independence?" The response has been unexpected, what with fresh blank postcards and pens at hand. Diyaa's family memories go back to a painful period before Independence - the Bengal famine of 1943 and the Second World War - when her paternal grandmother, a little girl at the time, remembered the family eating rice with salt because everything else was unaffordable. The grandmother would narrate such stories "in the flicker of candlelight back when power cuts plagued Bengal in the early 2000s". At first, I wondered whether people would respond thoughtfully to the prompt but I was pleasantly surprised to see how much care people had taken to record their family stories. Like we had hoped, what emerges is the story of ordinary people who don't find a place in our history books but who grappled with the idea of becoming citizens of a new nation in myriad ways.

SubQuestion No : 50

Q.50 At first, I wondered whether people would respond thoughtfully to the prompt….

What does 'prompt' in this sentence refer to?

Ans ✗ 1. Ordinary people

✗ 2. Power cuts

✗ 3. Recording family histories

✓ 4. Questions on the poster

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Option 1 ID : **6306801184342**
Option 2 ID : **6306801184341**
Option 3 ID : **6306801184344**
Option 4 ID : **6306801184343**
Status : **Answered**
Chosen Option : **3**