BHEL ET

Previous Year Paper

Electrical 25 May 2019

Participant ID	
Participant Name	
Test Center Name	
Test Date	25/05/2019
Test Time	9:00 AM - 11:30 AM
Subject	ENGINEER TRAINEE ELECTRICAL

Section : **Discipline Question**

Q.1 Which of the following combinations can be used for the protection of rotating machines against lightning surges?

Ans
✗ 1. Lightning conductor and lightning arrester
✗ 2. Lightning conductor and capacitor
✓ 3. Lightning arrester and capacitor
✗ 4. Lightning arrester alone is used

Question ID : **1501836897**
Status : **Answered**
Chosen Option : **3**

Q.2 The phenomenon in which induction motor when started on load, runs at $\frac{1^{th}}{7}$ of the rated speed, is known as:

Ans
✓ 1. crawling
✗ 2. locking
✗ 3. cogging
✗ 4. plugging

Question ID : **1501836907**
Status : **Answered**
Chosen Option : **1**

Q.3 For a class B amplifier, using a supply voltage of VCC = 30 V and driving a load of 12 Ω, calculate the transistor dissipation.

Ans
✓ 1. 8 W
✗ 2. 5 W
✗ 3. 10 W
✗ 4. 12 W

Question ID : **1501836914**

Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.4 The economic size of a conductor depends on:

Ans
1. ✗ Faraday's Law
2. ✗ Biot-Savart Law
3. ✗ Kirchhoff's Law
4. ✓ Kelvin's Law

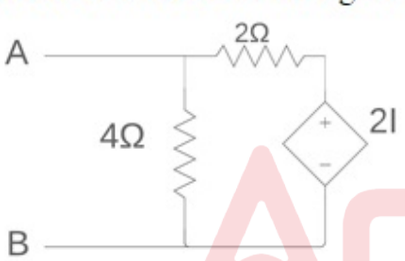
Question ID : **1501836899**
Status : **Answered**
Chosen Option : **4**

Q.5 In measurement, the difference between the true value and indicated value of a quantity is called:

Ans
1. ✗ Dynamic error
2. ✓ Absolute error
3. ✗ Relative error
4. ✗ Gross error

Question ID : **1501836985**
Status : **Answered**
Chosen Option : **2**

Q.6 The circuit shown in the figure is equivalent to the load of:



Ans
1. ✗ $\frac{4}{3}\ \Omega$
2. ✓ $\frac{8}{3}\ \Omega$
3. ✗ $2\ \Omega$
4. ✗ $4\ \Omega$

Question ID : **1501836937**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.7 When an induction machine is allowed to run above synchronous speed, then this characteristic exactly matches which of the following options?

Ans
1. ✓ Induction generator
2. ✗ DC motor
3. ✗ Induction motor
4. ✗ Synchronous motor

Question ID : **1501836926**
Status : **Answered**

Chosen Option : **1**

Q.8 Inverted V curve of a synchronous motor represents the relation between:

Ans
✗ 1. power factor and speed
✓ 2. field current and power factor
✗ 3. field current and speed
✗ 4. armature current and field current

Question ID : **1501836993**
Status : **Answered**
Chosen Option : **4**

Q.9 The increased load demand in a synchronous motor is met by:

Ans
✗ 1. reduction in speed
✗ 2. increase in speed
✓ 3. relative shift between stator and rotor poles
✗ 4. decrease in stator current

Question ID : **1501836923**
Status : **Answered**
Chosen Option : **3**

Q.10 To get minimum harmonic distortion in the output, a 3-phase to 3-phase cycloconverter requires:

Ans
✗ 1. 72 SCRs
✗ 2. 18 SCRs
✗ 3. 12 SCRs
✓ 4. 36 SCRs

Question ID : **1501836963**
Status : **Answered**
Chosen Option : **3**

Q.11 Which type of DC generator is most suitable for arc welding application?

Ans
✗ 1. Shunt generator
✗ 2. Series generator
✗ 3. Cumulative compound generator
✓ 4. Differential compound generator

Question ID : **1501836945**
Status : **Answered**
Chosen Option : **4**

Q.12 A 3-phase transformer rated for 33/6.6 kV is connected to a star/delta and the current transformer on the LV side has a ratio of 500 : 5. Determine the ratio of the current transformer on the HV side.

Ans
✗ 1. $110 : \frac{5}{\sqrt{3}}$
✓ 2. $100 : \frac{5}{\sqrt{3}}$

3. 100 : 5
4. 110 : 5

Question ID : **1501836889**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.13 The equivalent decimal number of $(0.4051)_8$ is:

Ans
1. 0.5100098
2. 0.6100018
3. 0.4100028
4. 0.70108

Question ID : **1501836875**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.14 In a PMMC-type instrument, which type of damping is employed?

Ans
1. No damping
2. Fluid friction damping
3. Air friction damping
4. Eddy current damping

Question ID : **1501836989**
Status : **Answered**
Chosen Option : **4**

Q.15 The properties of gases for insulation should be:

Ans
1. high dielectric strength only
2. high thermal stability only
3. high thermal stability and low temperature condensation
4. high dielectric strength and thermal stability

Question ID : **1501836943**
Status : **Answered**
Chosen Option : **3**

Q.16 If a DC compound machine connected as a generator is run as a motor, the series field connections must be in _____, as the armature current _____.

Ans
1. reverse direction; remains same
2. forward direction; reverses
3. forward direction; remains same
4. reverse direction; reverses

Question ID : **1501836906**
Status : **Answered**
Chosen Option : **4**

Q.17 A unity feedback system has open loop transfer function $GH(s) = \frac{K}{s(s+4)(s+16)}$.

Its root locus plot intersects the jω axis at _____.

Ans
1. ±j16 ✗
2. ± j2 ✗
3. ±j4 ✗
4. ±j8 ✓

Question ID : **1501836975**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.18 For a 3-phase alternator of 50 MVA match list 1 to list 2 and select the correct answer. List 1 represents the equivalent circuit parameters of a 3-phase alternator and list 2 represents the values.

List 1	List 2
A. Armature resistance	1) 1 pu
B. Synchronous reactance	2) 0.1 pu
C. Leakage reactance	3) 0.01 pu

Ans
1. A - 3; B - 2; C - 1 ✗
2. A - 1; B - 2; C - 3 ✗
3. A - 1; B - 3; C - 2 ✗
4. A - 3; B - 1; C - 2 ✓

Question ID : **1501836908**
Status : **Answered**
Chosen Option : **4**

Q.19 A unity feedback control system has forward path transfer function $G(s) = \frac{K}{s(s+2)}$. If the design specification is that the steady state error due to unit ramp input is 0.05, the value of gain K will be.

Ans
1. 10 ✗
2. 80 ✗
3. 40 ✓
4. 20 ✗

Question ID : **1501836950**
Status : **Answered**
Chosen Option : **1**

Q.20 Hay's bridge is used for measuring:

Ans
1. inductance of high Q factor ✓
2. resistance ✗
3. admittance ✗
4. capacitance ✗

Question ID : **1501836987**
Status : **Answered**
Chosen Option : **1**

Q.2

1 Reactive power compensation in feeders leads to:

Ans
1. negative and zero sequence currents
2. expensive voltage regulators
3. poor voltage profile
4. improved voltage profile

Question ID : **1501836964**
Status : **Answered**
Chosen Option : **4**

Q.22 In split induction motor, if the centrifugal switch of a single-phase resistance does not open after the starting of the motor, then the motor:

Ans
1. will draw very less current
2. will run at the speed that is equal to synchronous speed
3. will draw high current and get over heated
4. will run at the speed that is more than the normal speed

Question ID : **1501836928**
Status : **Answered**
Chosen Option : **3**

Q.23 A logic variable in either inverted or non-inverted form is called:

Ans
1. prime-implicant
2. minterm
3. maxterm
4. literal

Question ID : **1501836876**
Status : **Answered**
Chosen Option : **1**

Q.24 For the speed control of AC drive the preferred method using thyristor is:

Ans
1. integral cycle control
2. sinusoidal PWM control
3. unipolar PWM control
4. phase control

Question ID : **1501836881**
Status : **Answered**
Chosen Option : **2**

Q.25 Representation of $(-20)_{10}$ in two's complement form is:

Ans
1. 101111
2. 101100
3. 101110
4. 110001

Question ID : **1501836884**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.26 If four 10 μF capacitors are connected in parallel, the net capacitance will be:

Ans
✗ 1. 20 μF
✓ 2. 40 μF
✗ 3. 2.5 μF
✗ 4. 30 μF

Question ID : **1501836933**
Status : **Answered**
Chosen Option : **2**

Q.27 Find the total resistance of a voltmeter if the range of voltmeter is 50 V and sensitivity is 20 kΩ/V.

Ans
✗ 1. 2.5 kΩ
✗ 2. 10 kΩ
✗ 3. 0.4 kΩ
✓ 4. 1 MΩ

Question ID : **1501836984**
Status : **Answered**
Chosen Option : **4**

Q.28 An astable multivibrator has:

Ans
✗ 1. two stable states
✗ 2. no stable states
✗ 3. one quasi-stable state
✓ 4. two quasi-stable states

Question ID : **1501836921**
Status : **Answered**
Chosen Option : **2**

Q.29 In a synchronous machine, the synchronous reactance is the:

Ans
✗ 1. reactance due to either armature reaction or leakage flux
✗ 2. reactance due to armature reaction of the machine
✗ 3. reactance due to leakage flux
✓ 4. combined reactance due to leakage flux and armature reaction

Question ID : **1501836992**
Status : **Answered**
Chosen Option : **4**

Q.30 What is the efficiency of a transformer coupled class A amplifier for a supply of 12 V and output of V(peak) = 12 V?

Ans
✗ 1. 1.39%

2. 12.5%
3. 20%
4. 50%

Question ID : **1501836886**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.31 In star/delta starting of a 3-phase induction motor, the starting voltage is reduced to:

Ans
1. $\sqrt{3}$ times of normal voltage
2. 3 times the normal voltage
3. $\frac{1}{\sqrt{3}}$ of normal voltage
4. $\frac{1}{3}$ times of normal voltage

Question ID : **1501836925**
Status : **Answered**
Chosen Option : **3**

Q.32 In a dynamometer wattmeter, the moving coil is:

Ans
1. compensating coil
2. current coil
3. low power factor coil
4. potential coil

Question ID : **1501836981**
Status : **Answered**
Chosen Option : **4**

Q.33 The transfer function for the state variable representation $\dot{X} = AX + BU$, $Y = CX + DU$ is given by:

Ans
1. $D+C\,(sI - A)^{-1}\,B$
2. $D\,(sI - A)^{-1}\,C + B$
3. $D\,(sI - A)^{-1}\,B + C$
4. $B\,(sI - A)^{-1}\,C + D$

Question ID : **1501836955**
Status : **Answered**
Chosen Option : **4**

Q.34 For a 3-phase transmission line, find the disruptive critical voltage if the corona loss of the line is 25 kW at 50 kV/phase and 100 kW at 60 kV/phase.

Ans
1. 49.6 kV
2. 40 kV
3. 50 kV
4. 43.6 kV

Question ID : **1501836994**

Status : **Answered**
Chosen Option : **2**

Q.35 If transformer has leading load power factor then it has _____ voltage regulation.

Ans
✗ 1. maximum
✗ 2. positive
✗ 3. zero
✓ 4. negative

Question ID : **1501836900**
Status : **Answered**
Chosen Option : **3**

Q.36 Admittance is the reciprocal of:

Ans
✗ 1. inductance
✗ 2. susceptance
✓ 3. impedance
✗ 4. reactance

Question ID : **1501836967**
Status : **Answered**
Chosen Option : **3**

Q.37 The slope of Bode gain plot of transfer function $\frac{Ks}{(s+1)(s+10)}$ between $\omega = 1$ and $\omega = 10$ is:

Ans
✗ 1. +20 dB/ decade
✗ 2. –40 dB/ decade
✓ 3. zero
✗ 4. –20 dB/decade

Question ID : **1501836953**
Status : **Answered**
Chosen Option : **2**

Q.38 Which statement is INCORRECT in relation to Nyquist and Bode analysis?

Ans
✗ 1.
Number of closed-loop poles in the right half S-plane can be determined using Nyquist Criterion.

✗ 2.
Relative stability can be assessed from both Nyquist and Bode analyses.

✗ 3.
Nyquist analysis uses two plots, one for magnitude and another for phase angle.

✓ 4.
Bode analysis uses two plots, one for magnitude and another for phase angle.

Question ID : **1501836957**
Status : **Answered**
Chosen Option : **3**

Q.39 Hot reserve is defined as:

Ans
✗ 1.
a reserve generating capacity which is in service but not in operation

✓ 2.
a reserve generating capacity which is not in service but is in operation

✗ 3.
a reserve generating capacity which is not in service and not in operation

✗ 4.
a reserve generating capacity which is in service and in operation

Question ID : **1501836970**
Status : **Answered**
Chosen Option : **1**

Q.40 In a DC series motor, the ratio of back emf (E_b) to supply voltage (V) indicates:

Ans
✗ 1. running torque

✗ 2. speed regulation

✗ 3. starting torque

✓ 4. efficiency

Question ID : **1501836949**
Status : **Answered**
Chosen Option : **4**

Q.41 A 4-pole DC motor is lap-wound with 400 conductors. The pole shoe is 20 cm long and average flux density over one-pole-pitch is 0.4 T, the armature diameter being 30 cm. Find the torque when the motor is drawing 25 A and running at 1500 rpm.

Ans
✗ 1. 28.5 Nm

✗ 2. 28.9 Nm

✗ 3. 27.8 Nm

✓ 4. 29.9 Nm

Question ID : **1501836905**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.42 Which of the following is the correct comment on stability based on unknown k for the feedback system with characteristic equation $S^4 + 2kS^3 + S^2 + 5S + 5 = 0$?

Ans
✗ 1. Stable for positive value of k

✗ 2. Stable for zero value of k

✗ 3. Stable for all the values of k

✓ 4. Unstable for all the values of k

Question ID : **1501836951**
Status : **Answered**
Chosen Option : **1**

Q.43 Conservation of charge law is applied on:

Ans
✓ 1. Kirchhoff's Current Law

✗ 2. Lenz's Law

3. Faraday's Law

4. Kirchhoff's Voltage Law

Question ID : **1501836931**
Status : **Answered**
Chosen Option : **1**

Q.44 The function of interpoles in DC machine is to:

Ans

1. improve commutation

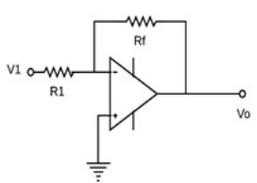
2. reduce field winding heating

3. reduce losses

4. compensate for airgap variation

Question ID : **1501836948**
Status : **Answered**
Chosen Option : **1**

Q.45 In the given circuit for $R_1 = 200\ k\Omega$ and $R_f = 500\ k\Omega$, the output voltage V_o for $V_1 = 2$ V will be:



Ans

1. +10 V

2. –5 V

3. –10 V

4. +5 V

Question ID : **1501836915**
Status : **Answered**
Chosen Option : **2**

Q.46 Find the meter constant if an energy meter is fed from a single-phase, 230-V, 50-Hz supply having a load of 20 A for 2 hours at unity power factor for which meter makes 1380 revolutions in that period.

Ans

1. 695 rev/KWh

2. 1/150 rev/KWh

3. 0.15 rev/KWh

4. 150 rev/KWh

Question ID : **1501836991**
Status : **Answered**
Chosen Option : **4**

Q.47 In a control system, the bandwidth of a system roughly measures:

Ans

1. Resonant frequency

2. Gain crossover frequency

3. Phase crossover frequency

4. Undamped natural frequency

Question ID : **1501836977**
Status : **Answered**
Chosen Option : **1**

Q.48 The harmonic restrained relay is used as protection for transformers having:

Ans
✔ 1. low fault settings and high operating speeds
✘ 2. high fault settings and low operating speeds
✘ 3. low fault settings and low operating speeds
✘ 4. high fault settings and high operating speeds

Question ID : **1501836940**
Status : **Answered**
Chosen Option : **4**

Q.49 In an inductive circuit, active power is 60 W and reactive power is 80 VAR. Calculate the power factor of the circuit.

Ans
✔ 1. 0.6 lag
✘ 2. 0.8 lag
✘ 3. 0.5 lag
✘ 4. 0.75 lag

Question ID : **1501836936**
Status : **Answered**
Chosen Option : **1**

Q.50 A reactance relay is also known as:

Ans
✔ 1. Directional restrained overcurrent relay
✘ 2. Voltage restrained overcurrent relay
✘ 3. Directional restrained directional relay
✘ 4. Voltage restrained directional relay

Question ID : **1501836974**
Status : **Answered**
Chosen Option : **1**

Q.51 If the PSM is 8, the relay setting is 125% and CT ratio is 400 : 1, then the value of fault current will be:

Ans
✔ 1. 4000 A
✘ 2. 4550 A
✘ 3. 3000 A
✘ 4. 5000 A

Question ID : **1501836882**
Status : **Answered**
Chosen Option : **1**

Q.52 ACSR conductors consist of:

Ans
✘ 1. inner conductors made of aluminium

✗ 2. all conductors made of aluminium
✓ 3. outer conductors made of aluminium
✗ 4. core conductors made of aluminium

Question ID : **1501836888**
Status : **Answered**
Chosen Option : **3**

Q.53 At $t = 0^+$ an inductor with zero initial conditions acts as a/an:

Ans
✗ 1. short circuit with current reflected back
✓ 2. open circuit with current reflected back
✗ 3. open circuit with voltage reflected back
✗ 4. short circuit with voltage reflected back

Question ID : **1501836935**
Status : **Answered**
Chosen Option : **3**

Q.54 Determine the time of operation of a relay of rating 5 A, 2.2 s IDMT and having a relay setting of 125%, TMS = 0.6. It is connected to the supply circuit through a CT 400 : 5 ratio. The fault current is 4000 A.

PSM	2	5	8	10
Time	10	8	3.2	2.5

Ans
✗ 1. 1.89 s
✓ 2. 1.92 s
✗ 3. 1.93 s
✗ 4. 1.87 s

Question ID : **1501836894**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.55 Two incandescent bulbs of rating 230 V, 100 W and 230 V, 500 W are connected in series across the mains. As a result what will happen?

Ans
✗ 1. neither will glow brighter
✗ 2. both will glow brighter
✓ 3. 100 W will glow brighter
✗ 4. 500 W will glow brighter

Question ID : **1501836932**
Status : **Answered**
Chosen Option : **3**

Q.56 Power dissipation is negligibly small in:

Ans
✗ 1. SCR
✗ 2. BJT
✗ 3. MOSFET
✓ 4. CMOS

Question ID : **1501836877**
Status : **Answered**

Chosen Option : **1**

Q.57 The logic equation of an EX-NOR gate having A and B as its input is:

Ans
1. ✗ A'B' + AB'
2. ✓ A'B' + AB
3. ✗ A'B + AB'
4. ✗ A'B' + A'B

Question ID : **1501836885**
Status : **Answered**
Chosen Option : **3**

Q.58 The ZPFC characteristics can be obtained by loading the synchronous generator using:

Ans
1. ✓ synchronous motor
2. ✗ DC series motor
3. ✗ lamp load
4. ✗ DC shunt motor

Question ID : **1501836903**
Status : **Answered**
Chosen Option : **3**

Q.59 The type of fault in the system having sequence components of the fault currents I_{zero} = -j1pu, $I_{negative}$ = -j0.5pu and $I_{positive}$ = j1.5pu is:

Ans
1. ✗ LG
2. ✓ LLG
3. ✗ LLLG
4. ✗ LL

Question ID : **1501836968**
Status : **Answered**
Chosen Option : **3**

Q.60 In a 3-phase inverter-fed induction motor drive, the THD is 4% if the maximum value of load current is 4 A. The RMS value of net harmonic current is:

Ans
1. ✗ 0.08
2. ✓ $0.08\sqrt{2}$
3. ✗ 0.16
4. ✗ $0.16\sqrt{2}$

Question ID : **1501836962**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.61 The system $\dot{X}(t) = Ax(t) + Bu(t)$ with

$A = \begin{bmatrix} -1 & 2 \\ 0 & 2 \end{bmatrix}$, $B = \begin{bmatrix} 0 \\ 1 \end{bmatrix}$ is:

Ans
1. ✗ unstable and uncontrollable
2. ✓ unstable but controllable

3. stable but uncontrollable
4. stable and controllable

Question ID : **1501836956**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.62 Breakdown is permanent in:

Ans
1. liquids
2. vapours
3. gases
4. solids ✔

Question ID : **1501836944**
Status : **Answered**
Chosen Option : **4**

Q.63 A transformer has an efficiency of 85% and works on 100 V, 4 kVA. If the secondary voltage is 200 V then the primary current is:

Ans
1. 20 A
2. 30 A
3. 10 A
4. 40 A ✔

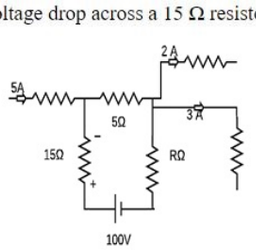
Question ID : **1501836930**
Status : **Answered**
Chosen Option : **4**

Q.64 Null method of measurement is NOT employed in:

Ans
1. DC potentiometer
2. Kelvin's double bridge
3. megger ✔
4. AC potentiometer

Question ID : **1501836986**
Status : **Answered**
Chosen Option : **3**

Q.65 The voltage drop across a 15 Ω resistor in the circuit is 30 V having the polarity indicated. Find the value of R.



Ans
1. 17.5 V ✔
2. 30 V
3. 23 V
4. 50 V

Question ID : **1501836959**
Status : **Not Answered**
Chosen Option : **--**

Q.66 Solve for RMS value of voltage $u(t) = 8 + 6\cos(3t)$.

Ans
1. 10 ✗
2. $\sqrt{82}$ ✓
3. $2\sqrt{2}+\sqrt{4}$ ✗
4. $\frac{6}{\sqrt{2}}$ ✗

Question ID : **1501836880**
Status : **Answered**
Chosen Option : **2**

Q.67 A diode whose terminal characteristics are related as $I_d = I_s(V/V_T)$, is biased at $I_d = 2$ mA. Its dynamic resistance is:

(Given $\eta = 2$ and $V_T = 25$ mV)

Ans
1. 22.5 Ω ✗
2. 50 Ω ✗
3. 12.5 Ω ✗
4. 25 Ω ✓

Question ID : **1501836916**
Status : **Answered**
Chosen Option : **4**

Q.68 Which type of device is JFET?

Ans
1. Current controlled device ✗
2. Voltage controlled device ✓
3. Resistance controlled device ✗
4. Conductance controlled device. ✗

Question ID : **1501836918**
Status : **Answered**
Chosen Option : **1**

Q.69 If J = K in case of J - K flip-flop, then the resulting flip-flop is known as:

Ans
1. J-K FLIP FLOP itself ✗
2. T-type FLIP-FLOP ✓
3. S-R FLIP-FLOP ✗
4. D-type FLIP-FLOP ✗

Question ID : **1501836909**
Status : **Answered**
Chosen Option : **3**

Q.70 The pu parameters for a 300 MVA machine on its own base are inertia M = 10 pu and reactance X = 4 pu. The pu values of inertia and reactance on 50 MVA common base, respectively, will be:

Ans
1. 40, 0.67 ✗

2. 60, 0.67
3. 4, 10
4. 60, 0.4

Question ID : **1501836966**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.71 The Laplace transform of $t.e^{at}$ is:

Ans
1. $\frac{1}{(s^2-a)}$
2. $\frac{1}{(s^2+a)}$
3. $\frac{s}{(s+a)}$
4. $\frac{1}{(s-a)^2}$

Question ID : **1501836938**
Status : **Answered**
Chosen Option : **4**

Q.72 The time which elapses between the instant when the actuating quantity exceeds the pickup value and the instant when the relay contacts close is called:

Ans
1. operating time
2. reset time
3. breaker time
4. preset time

Question ID : **1501836893**
Status : **Answered**
Chosen Option : **2**

Q.73 In a control system, the response is critically damped if:

Ans
1. Damping factor is 0
2. Damping factor is < 1
3. Damping factor is > 1
4. Damping factor is 1

Question ID : **1501836976**
Status : **Answered**
Chosen Option : **4**

Q.74 The BCD code for decimal 325 is:

Ans
1. 0011 0010 0101
2. 1111 1010 1101
3. 1101 1010 1100
4. 1100 1010 1101

Question ID : **1501836912**
Status : **Answered**
Chosen Option : **1**

Q.75 For a total harmonic distortion of 0.1 with I1 = 4A and Rc = 8Ω, calculate total power.

Ans
✗ 1. 50 W
✓ 2. 64.64 W
✗ 3. 55.55 W
✗ 4. 70 W

Question ID : **1501836896**
Status : **Not Answered**
Chosen Option : **--**

Q.76 In a system of 132 kV, the line to ground capacitance is 0.05 μF and the inductance is 8 H. Determine the voltage appearing across the pole of a circuit breaker if a magnetising current of 7 A is interrupted.

Ans
✓ 1. 88.54 kV
✗ 2. 23.99 kV
✗ 3. 54.88 kV
✗ 4. 99.23 kV

Question ID : **1501836895**
Status : **Answered**
Chosen Option : **4**

Q.77 A load of three impedances each $(6 + j9)$ is supplied through a line having an impedance of $(1 + j2)$ Ω. The supply voltage is 400 V at 50 Hz. Determine input and output powers respectively when the load is star connected.

Ans
✗ 1. 6688 W and 9854 W
✓ 2. 6591W and 5649W
✗ 3. 4359 W and 8269 W
✗ 4. 5469 W and 6591 W

Question ID : **1501836883**
Status : **Not Answered**
Chosen Option : **--**

Q.78 The main requirements of the insulating materials used for cables is:

Ans
✗ 1. low insulation resistance
✓ 2. tenacity
✗ 3. hygroscopicity
✗ 4. less elasticity

Question ID : **1501836892**
Status : **Answered**
Chosen Option : **3**

Q.79 The Barkhausen criteria is:

Ans
✓ 1. $|A\beta| = 1$
✗ 2. $|A\beta| = -1$

3. $A = \beta$

4. $A = -\beta$

Question ID : **1501836922**
Status : **Answered**
Chosen Option : **1**

Q.80 Which diode exhibits negative resistance characteristics?

Ans
1. pn junction diode
2. Zener diode
3. LED
4. Tunnel diode

Question ID : **1501836920**
Status : **Answered**
Chosen Option : **4**

Q.81 For complete protection of a 3-phase line, how many phases and earth fault relays are required?

Ans
1. 2 phases and 2 earth fault relays
2. 2 phases and 1 earth fault relay
3. 1 phase and 2 earth fault relays
4. 3 phases and 1 earth fault relay

Question ID : **1501836971**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.82 The ratio error in current transformer is attributed to:

Ans
1. magnetising component of no-load current
2. power factor of the primary
3. energy component of excitation current
4. leakage flux

Question ID : **1501836982**
Status : **Answered**
Chosen Option : **1**

Q.83 SF_6 is a:

Ans
1. neutral gas
2. non-attaching gas
3. quickly ionising gas
4. electronegative gas

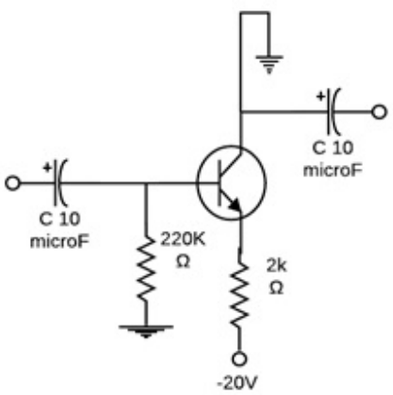
Question ID : **1501836942**
Status : **Answered**
Chosen Option : **4**

Q.84 The Complementary Coded Decimal(CCD) code for decimal 325 is:

Ans
1. 1101 1010 1100
2. 1100 1010 1101
3. 1111 1010 1101
4. 1100 1101 1010

Question ID : **1501836902**
Status : **Answered**
Chosen Option : **4**

Q.85 The V_{CEQ} and I_{EQ} for the given network having $\beta = 90$ are:



Ans
1. 4.39 V; 11.22 V
2. 11.22 V; 4.39 mA
3. 5.09 V; 16.32 mA
4. 16.32 V; 5.09 mA

Question ID : **1501836913**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.86 In the case of transformers, the increase in temperature is directly proportional to:

Ans
1. leakage reactance
2. reactive power
3. power factor
4. apparent power

Question ID : **1501836901**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.87 In which condition does the voltage source inverter give better performance?

Ans
1. Both load and source inductances are high.
2. Both load and source inductances are less.
3. Load inductance is less and source inductance is high.
4. Load inductance is high and source inductance is less.

Question ID : **1501836972**
Status : **Answered**
Chosen Option : **3**

Q.88 The ratio of maximum demand on the power station to the rated capacity of the power station is called:

Ans
✗ 1. plant use factor
✗ 2. demand factor
✓ 3. utilisation factor
✗ 4. diversity factor

Question ID : **1501836890**
Status : **Answered**
Chosen Option : **3**

Q.89 Find the making current for a circuit breaker rated at 1000 A, 3000 MVA, 66 kV, 3 sec, 3-phase, oil circuit breaker.

Ans
✗ 1. 58.62 kA
✓ 2. 66.92 kA
✗ 3. 86.92 kA
✗ 4. 76.52 kA

Question ID : **1501836887**
Status : **Answered**
Chosen Option : **2**

Q.90 A flip-flop whose state changes on the rising or falling edge of a clock pulse is called:

Ans
✗ 1. rising edge flip-flop
✗ 2. level-triggered flip-flop
✓ 3. edge-triggered flip-flop
✗ 4. leading edge flip-flop

Question ID : **1501836910**
Status : **Answered**
Chosen Option : **3**

Q.91 An overhead line is equipped with shunt inductive reactor at receiving end to maintain sending end voltage equal to the receiving end voltage. If the ABCD parameters of line are A = D = 0.9 ∠0, B = 200 ∠90 Ω and C = 0.95×10^{-3}∠90 S, what should be the ohmic value of the reactor to maintain same voltage on both side?

Ans
✗ 1. 1052.6 Ω
✓ 2. 2000 Ω
✗ 3. 105.26 Ω
✗ 4. 1055 Ω

Question ID : **1501836958**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.92 In an electric machine $F_2 = 920$ AT, $F_1 = 400$ AT, alpha = 125° and the resultant air gap flux per pole is 0.107 Wb. Find out permeance per pole.

Note: AT (Ampere Turn) is a unit.

Ans
✓ 1. 1.408×10^{-4} Wb/AT

2. 8.408×10^{-4} Wb/AT

3. 2.408×10^{-4} Wb/AT

4. 2.480×10^{-4} Wb/AT

Question ID : **1501836904**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.93 In BJT when both the junctions are forward biased, then its operating mode is called:

Ans

1. cut-off mode
2. reverse active mode
3. forward active mode
4. saturation mode

Question ID : **1501836919**
Status : **Answered**
Chosen Option : **4**

Q.94 By conducting Swinburne's test on a DC machine, which of the following losses can be determined?

Ans

1. Armature copper losses
2. Friction and windage losses
3. Copper losses in both armature and field
4. Constant losses

Question ID : **1501836946**
Status : **Answered**
Chosen Option : **4**

Q.95 In the two-wattmeter method of measurement of three-phase power of a balanced load, if both wattmeters indicate the same reading, then the power factor of the load is:

Ans

1. Unity
2. 0.5 lag
3. < 0.5 lag
4. >0.5 lag

Question ID : **1501836980**
Status : **Answered**
Chosen Option : **1**

Q.96 In a DC shunt motor, if the terminal voltage is reduced to half, torque remaining the same, then which of the following is true?

Ans

1. Speed remains the same and the armature current will double.
2. Speed will become half and the armature current will double.
3. Speed will become half and the armature current will also become half.
4.

Speed will become half and the armature current will remain the same.

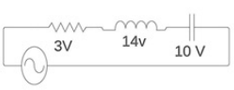
Question ID : **1501836947**
Status : **Answered**
Chosen Option : **4**

Q.97 A lap wound DC machine having 4-poles has 720 armature conductors. Its field winding is excited from a DC source to create an air-gap flux of 32 mWb/pole. The generator is run from a prime mover at 1500 rpm and supplies a current of 100 A to an electric load. Calculate the electromagnetic power developed in the machine?

Ans
1. 76.5 kW
2. 50 kW
3. 65.7 kW
4. 57.6 kW

Question ID : **1501836924**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.98 The voltage across R, L and C are 3 V, 14 V and 10 V respectively. As in figure, if the voltage source is sinusoidal, then the input voltage (RMS) is:



Ans
1. 10 V
2. 15 V
3. 2.5 V
4. 5 V

Question ID : **1501836939**
Status : **Answered**
Chosen Option : **4**

Q.99 In a 3-phase convertor circuit, during commutation when one SCR in one phase is turned on, turning off an SCR in another phase results in:

Ans
1. harmonic distortion
2. voltage swell
3. voltage sag
4. voltage notching

Question ID : **1501836973**
Status : **Answered**
Chosen Option : **1**

Q.100 The network is said to be under resonance when the voltage and current at the network input terminals are:

Ans
1. in phase quadrature
2. in phase and have equal magnitude
3. out of phase
4. in phase

Question ID : **1501836934**
Status : **Answered**
Chosen Option : **4**

Q.101 Electrolytic meter is basically a/an:

Ans
✔ 1. DC ampere-hour meter
✘ 2. AC energy meter
✘ 3. DC watt-hour meter
✘ 4. AC ampere-hour meter

Question ID : **1501836990**
Status : **Answered**
Chosen Option : **4**

Q.102 Normally which of the following has a negative temperature coefficient?

Ans
✘ 1. Nickel
✘ 2. Platinum
✘ 3. Copper
✔ 4. Thermistor

Question ID : **1501836917**
Status : **Answered**
Chosen Option : **4**

Q.103 Calculate the reading of voltmeter when 110 V 50 Hz is supplied across PMMC voltmeter having internal resistance 10 KΩ and full-scale range of 0-220 V.

Ans
✘ 1. $110\sqrt{2}$ V
✘ 2. 55 V
✘ 3. 78 V
✔ 4. 0 V

Question ID : **1501836988**
Status : **Answered**
Chosen Option : **4**

Q.104 In control systems, the type of system depends on the number of:

Ans
✘ 1. Zeros at infinity
✘ 2. Poles at infinity
✔ 3. Poles at origin of S plane
✘ 4. Poles on S plane

Question ID : **1501836952**
Status : **Answered**
Chosen Option : **3**

Q.105 The initial shape of Bode plot gives an indication of:

Ans
✔ 1. type of the system
✘ 2. order of the system
✘ 3. nature of the system time response

✗ 4. system stability

Question ID : **1501836978**
Status : **Answered**
Chosen Option : **1**

Q.106 1-Ø transformer at no load has a core loss of 75 W and current of 5 A (RMS) and has an induced EMF of 230 V (RMS). Determine the magnetising current and core loss current respectively.

Ans
✗ 1. 10A; 0.5A
✓ 2. 5A; 0.326A
✗ 3. 0.5A;10A
✗ 4. 0.326 A; 5 A

Question ID : **1501836898**
Status : **Answered**
Chosen Option : **2**

Q.107 If the line voltage and load remains same on the 3-phase synchronous motor, then calculate the line current at power factor of 0.5 leading. Assume that initially at rated load motor draws a current of 200 A from the line at unity power factor:

Ans
✗ 1. 200A
✓ 2. 400A
✗ 3. 300A
✗ 4. 100A

Question ID : **1501836878**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.108 A filter circuit which transmits all the frequencies without any attenuation, but provides some phase shift between input and output signals is called:

Ans
✗ 1. High pass filter
✗ 2. Band pass filter
✗ 3. Low pass filter
✓ 4. All pass filter

Question ID : **1501836879**
Status : **Answered**
Chosen Option : **4**

Q.109 Find the accelerating torque in the generator (in MN-m) at the time of the fault for a 50-Hz, 4-pole, 500-MVA, 22-KV turbo-generator which is delivering rated MVA at 0.8 power factor. The electric output power is reduced to 40% due to unexpected fault. Assume constant power input to the shaft and negligible losses for the machine.

Ans
✓ 1. 1.018
✗ 2. 1.528
✗ 3. 0.848
✗ 4. 0.509

Question ID : **1501836965**
Status : **Not Answered**
Chosen Option : **--**

Q.110 In a forward biased region of a pn junction diode:

Ans
✗ 1.
the diode current decreases exponentially with decrease in voltage.
✓ 2.
the diode current increases exponentially with increase in voltage.
✗ 3.
the diode current increases exponentially with decrease in voltage.
✗ 4.
the diode current decreases exponentially with increase in voltage.

Question ID : **1501836969**
Status : **Answered**
Chosen Option : **2**

Q.111 For a given stability error for step input and speed of response criteria, the most appropriate controller would be:

Ans
✓ 1. PID Controller
✗ 2. PD Controller
✗ 3. P Controller
✗ 4. PI Controller

Question ID : **1501836979**
Status : **Answered**
Chosen Option : **1**

Q.112 The speed of a 3-phase 2-pole, 60 Hz synchronous motor is controlled by a step-down 3-phase cycloconverter. The maximum speed of the motor can be:

Ans
✗ 1. 1000 rpm
✓ 2. 1200 rpm
✗ 3. 3600 rpm
✗ 4. 1500 rpm

Question ID : **1501836941**
Status : **Answered**
Chosen Option : **3**

Q.113 The range of DC milliammeter can be extended by using a:

Ans
✗ 1. high resistance in series
✗ 2. low resistance in series
✓ 3. low resistance shunt
✗ 4. high resistance shunt

Question ID : **1501836983**
Status : **Answered**
Chosen Option : **3**

Q.114 The area of a hysteresis loop for the magnetic material used in the rotor of a hysteresis motor should be:

Ans
✗ 1. infinite
✗ 2. medium

3. very large
4. very small

Question ID : **1501836929**
Status : **Answered**
Chosen Option : **3**

Q.115 A separately excited DC motor is energised from a 440-V, 50-Hz, 3-phase full-wave converter. The input voltage to the motor for a firing angle of 45 degrees (in volts) is:

Ans
1. 390
2. 420
3. 260
4. 297

Question ID : **1501836961**
Status : **Not Answered**
Chosen Option : **--**

Q.116 A shift register with its complement output (Q') of the last stage connected to the D-input of the first stage is called:

Ans
1. asynchronous counter
2. up-counter
3. twisted-ring counter
4. synchronous counter

Question ID : **1501836911**
Status : **Answered**
Chosen Option : **3**

Q.117 A 6-pole, 50 Hz, 3-phase induction motor is running at 950 rpm and has rotor copper loss of 5 kW. Its rotor input is:

Ans
1. 100 kW
2. 10 kW
3. 95 kW
4. 5.3 kW

Question ID : **1501836927**
Status : **Answered**
Chosen Option : **1**

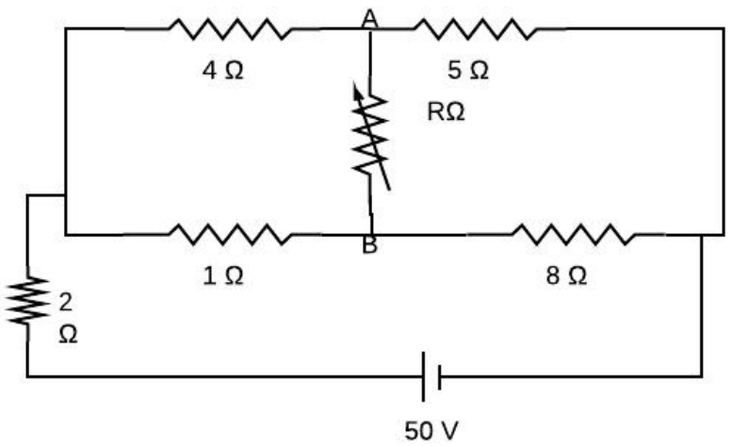
Q.118 A 50 Hz, overhead line has line to earth capacitance of 1μF. It is decided to use an earth fault neutraliser. Determine the reactance to neutralise the capacitance of 90% length of line.

Ans
1. 1278 Ω
2. 1169 Ω
3. 1179 Ω
4. 1189 Ω

Question ID : **1501836891**
Status : **Not Answered**
Chosen Option : **--**

Q.119

The value of R for maximum power transfer with reference to the given diagram is:



Ans
1. 1.73
2. 3.27
3. 3.64
4. 1.21

Question ID : **1501836960**
Status : **Not Answered**
Chosen Option : **--**

Q.120 The lag compensator is used to:

Ans
1. improve steady state only
2. improve both steady state and transient response
3. improve steady state and reduce speed of transient response
4. improve transient state only

Question ID : **1501836954**
Status : **Answered**
Chosen Option : **1**

Section : **Reasoning Question**

Q.1 In a horizontal row of 39 students facing north, Chandu is 19th from the right end of the row. There are 14 students between Chandu and Deepa.

What is the position of Deepa from the left end of the row?

Ans
1. 9th position
2. 35th position
3. 34th position
4. 6th position

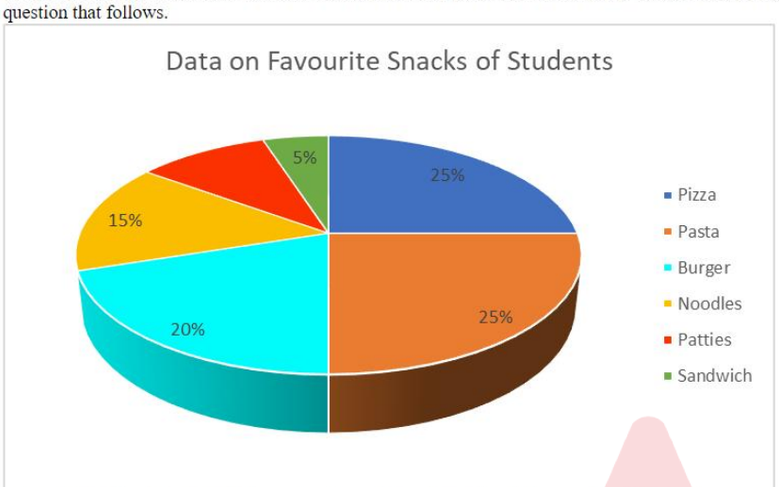
Question ID : **1501837037**
Status : **Answered**
Chosen Option : **4**

Q.2 The ages of three brothers are three consecutive odd numbers, the sum of which is 69. Which one of the following numbers is NOT the age of any of the three brothers?

Ans
1. 23
2. 25
3. 27
4. 21

Question ID : **1501837025**
Status : **Answered**
Chosen Option : **3**

Q.3 The pie-chart below shows the favourite snacks of 300 students of a school. Study the given information and answer the question that follows.



What is the number of students who like sandwiches, patties and burgers – all put together?

Ans
1. 90
2. 105
3. 45
4. 75

Question ID : **1501837024**
Status : **Answered**
Chosen Option : **2**

Q.4 Select the term that is related to the third term in the same way as the second term is related to the first term.

Statesman : Politics : : Cleric : ?

Ans
1. Accounts
2. Law
3. Religion
4. Magic

Question ID : **1501837001**
Status : **Marked For Review**
Chosen Option : **1**

Q.5 Select the option that will fill in the blank and complete the series correctly.

B, C, E, H, L, Q, __

Ans
1. V
2. X
3. W
4. U

Question ID : **1501836995**
Status : **Answered**
Chosen Option : **3**

Q.6 The table below presents the data of 6 children's performances in a mid-term examination. The maximum marks for each subject are 100. Study the given information and answer the question that follows.

Marks scored by students of a class						
Subjects	Students					
	Abraham	Basant	Chinmay	Dua	Ela	Fauzia
Physics	87	97	93	74	61	79
Chemistry	68	63	95	73	41	63
Biology	83	91	66	56	69	55
Mathematics	56	65	42	68	56	99
IT	91	91	93	98	81	85
English	84	63	74	82	74	68

All the students except one scored the highest marks in at least one individual subject. Who among the following students did NOT score the highest marks in any of the given subjects?

Ans
✔ 1. Ela
✘ 2. Dua
✘ 3. Chinmay
✘ 4. Fauzia

Question ID : **1501837019**
Status : **Not Answered**
Chosen Option : **--**

Q.7 In a blindfold game, Suresh was blindfolded and made to turn several times. In the beginning, he was facing east. Then he turned 45° in the clock-wise direction. Then he turned 135° in the anticlockwise direction. Finally, he turned 45° to his left and stopped. Which direction was Suresh facing in the end?

Ans
✘ 1. South-west
✘ 2. North-east
✔ 3. North-west
✘ 4. South-east

Question ID : **1501837011**
Status : **Answered**
Chosen Option : **3**

Q.8 Read the information given below and answer the questions that follow by choosing the most appropriate option.

Eight friends, Aditya, Barkha, Candy, Dharam, Ekta, Fehmida, Geeta and Heena, are sitting around a circular table, all facing away from the centre of the table. All positions are at equal distance from each other.

Dharam is third to the left of Fehmida.
Ekta and Geeta always sit immediately next to each other.
Heena is third to the right of Geeta.
Aditya sits to the immediate left of Candy.
Fehmida is second to the right of Barkha.
Candy sits immediately next to neither Fehmida nor Dharam.

In which of the following pairs is the first person sitting to the immediate left of the second person?

Ans
✘ 1. Ekta, Candy
✘ 2. Heena, Barkha
✔ 3. Fehmida, Aditya
✘ 4. Dharam, Geeta

Question ID : **1501837043**
Status : **Not Answered**
Chosen Option : **--**

Q.9 Which one of the pairs of words given in the options shares the same relation as the pair given below does?

Asia : Malaysia

Ans
1. Greece : Rome
2. Europe : Frankfurt
3. Africa : Kenya
4. Iceland : Arctic

Question ID : **1501837000**
Status : **Answered**
Chosen Option : **3**

Q.10 Given below are two statements followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts and then decide which of the given conclusions logically follow(s) from the given statements.

Statements:
I. All hats are caps
II. All caps are crowns

Conclusions:
I. Some caps are hats.
II. All caps are hats.
III. Some crowns are hats.
IV. All crowns are hats.

Ans
1. Conclusions I and III follow
2. Only conclusion I follows
3. Conclusions II and IV follow
4. Only conclusion III follows

Question ID : **1501837038**
Status : **Answered**
Chosen Option : **1**

Q.11 The sum of the ages of a girl and her father is 56 years. Three years ago, the father's age was four times the daughter's then age. What is the daughter's present age?

Ans
1. 12 years
2. 13 years
3. Cannot be determined
4. 14 years

Question ID : **1501837026**
Status : **Answered**
Chosen Option : **2**

Q.12 If TEAR is coded as 22-5-3-18, then what is the code for ERGATE?

Ans
1. 5-20-9-3-22-5
2. 7-18-9-1-22-5
3. 5-18-9-7-22-5
4. 22-20-20-3-7-7

Question ID : **1501837040**
Status : **Answered**
Chosen Option : **2**

Q.13

Consider the given statement and decide which of the given assumptions is/are implicit in the statement.

Statement: Expressing concerns over rising oil prices, the CEO of Bhoodevi Corp, the world's largest crude oil company, has demanded that the United Nations should lift sanctions against several countries in the middle-east Asia immediately.

Assumption I: The CEO is pained by the humanitarian crisis in the region.
Assumption II: The sanction is affecting the business interests of the company negatively.

Ans
1. Neither assumption is implicit.
2. Both the assumptions are implicit
3. Only assumption II is implicit.
4. Only assumption I is implicit.

Question ID : **1501837015**
Status : **Answered**
Chosen Option : **3**

Q.14 If DO = 35 and NOD = 48, then what is DEMON equal to?

Ans
1. 79
2. 84
3. 66
4. 51

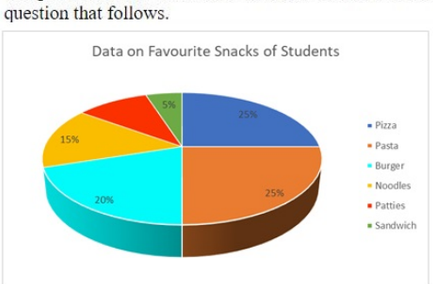
Question ID : **1501837039**
Status : **Answered**
Chosen Option : **2**

Q.15 Ramniklal purchased a piece of agricultural land for ₹51 lakh. He spent ₹2 lakh on converting the land into non-agricultural use, ₹2 lakh for registration and stamp duty, and ₹1 lakh towards administrative expenses. Then, he divided the plot into 8 equal plots, and sold each plot at a value of ₹10.5 lakh. What was the percentage profit that Ramniklal made in the entire transaction?

Ans
1. 20% profit
2. 50% profit
3. 25% profit
4. 33.3% profit

Question ID : **1501837031**
Status : **Not Answered**
Chosen Option : **--**

Q.16 The pie-chart below shows the favourite snacks of 300 students of a school. Study the given information and answer the question that follows.

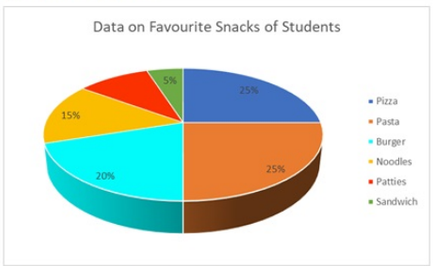


What percentage of students like patties?

Ans
1. 20
2. 30
3. 10
4. 15

Question ID : **1501837020**
Status : **Answered**
Chosen Option : **2**

Q.17 The pie-chart below shows the favourite snacks of 300 students of a school. Study the given information and answer the question that follows.



How many students like burgers?

Ans
1. 60
2. 75
3. 90
4. 45

Question ID : **1501837022**
Status : **Answered**
Chosen Option : **1**

Q.18 Which one of the pairs of words given in the options shares the same relation as the pair given below does?

Ophthalmology : Eye

Ans
1. Dermatology : Children
2. Nephrology : Kidney
3. Oncology : Teeth
4. Pulmonology : Stomach

Question ID : **1501836998**
Status : **Answered**
Chosen Option : **2**

Q.19 Select the term that is related to the third term in the same way as the second term is related to the first term.

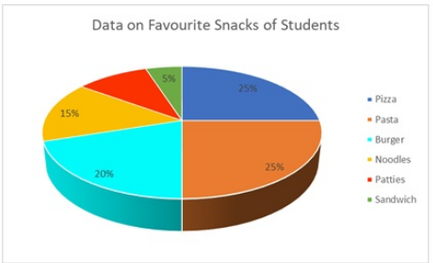
Cynophobia : Dogs : : Arachnophobia : ?

Ans
1. Spiders
2. Snakes
3. Cats
4. Lizards

Question ID : **1501837003**
Status : **Not Answered**
Chosen Option : **--**

Q.20

The pie-chart below shows the favourite snacks of 300 students of a school. Study the given information and answer the question that follows.



How many more children like noodles and pasta put together than those who like sandwich and patties put together?

Ans
1. 45
2. 60
3. 90
4. 75 ✔

Question ID : **1501837023**
Status : **Answered**
Chosen Option : **4**

Q.21 Select the odd one from the options.

Ans
1. Marigold
2. Tulip
3. Bouquet ✔
4. Hibiscus

Question ID : **1501837002**
Status : **Answered**
Chosen Option : **3**

Q.22 The table below presents the data of 6 children's performances in a mid-term examination. The maximum marks for each subject are 100. Study the given information and answer the question that follows.

Marks scored by students of a class						
Subjects	Students					
	Abraham	Basant	Chinmay	Dua	Ela	Fauzia
Physics	87	97	93	74	61	79
Chemistry	68	63	95	73	41	63
Biology	83	91	66	56	69	55
Mathematics	56	65	42	68	56	99
IT	91	91	93	98	81	85
English	84	63	74	82	74	68

What is the difference between the total scores of Abraham and Chinmay?

Ans
1. 15 marks
2. 6 marks ✔
3. 9 marks
4. 3 marks

Question ID : **1501837018**
Status : **Marked For Review**
Chosen Option : **1**

Q.23 Select the option that will fill in the blank and complete the series correctly.

BC, NO, FG, RS, JK, __

Ans
1. UV
2. WX
3. VW ✔

✗ 4. WV

Question ID : **1501836996**
Status : **Answered**
Chosen Option : **3**

Q.24 Muskaan points towards Jason and says, "He is my father's sister's husband's mother-in-law's only daughter-in-law's father."
How is Muskaan related to Jason?

Ans
✓ 1. Grand-daughter
✗ 2. Sister
✗ 3. Mother
✗ 4. Daughter

Question ID : **1501837044**
Status : **Not Answered**
Chosen Option : **--**

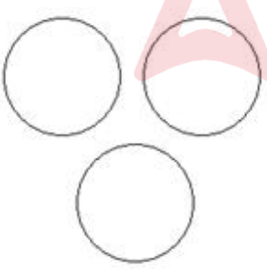
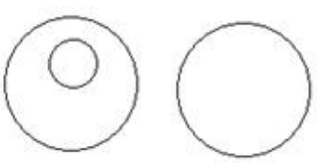
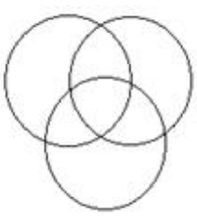
Q.25 In a code language, MASTER is written as NZTSFQ, and FRIEND is written as GQJDOC. How will ADRIFT be written in that code language?

Ans
✗ 1. ZESHEU
✗ 2. BCQJGS
✓ 3. BCSHGS
✗ 4. ZEQJGS

Question ID : **1501837009**
Status : **Answered**
Chosen Option : **3**

Q.26 Select the option that correctly represents the relationship between the classes given below.

Crocodiles, Turtles, Reptiles

Ans
✗ 1. 
✗ 2. 
✗ 3. 
✓ 4. 

Question ID : **1501837035**
Status : **Answered**
Chosen Option : **2**

Q.27 The table below presents the data of 6 children's performances in a mid-term examination. The maximum marks for each subject are 100. Study the given information and answer the question that follows.

Subjects	Marks scored by students of a class					
	Students					
	Abraham	Basant	Chinmay	Dua	Elu	Fauzia
Physics	87	97	93	74	61	79
Chemistry	68	63	95	73	41	63
Biology	83	91	66	56	69	55
Mathematics	56	65	42	68	56	99
IT	91	91	93	98	81	85
English	84	63	74	82	74	68

Who among the given students scored the highest marks in all the subjects taken together?

Ans
1. Dua
2. Basant
3. Abraham
4. Fauzia

Question ID : **1501837016**
Status : **Marked For Review**
Chosen Option : **1**

Q.28 Select the term that is related to the third term in the same way as the second term is related to the first term.

Beatitude: Happiness : Tranquil : ?

Ans
1. Stormy
2. Vindictive
3. Perplex
4. Serene

Question ID : **1501837004**
Status : **Answered**
Chosen Option : **2**

Q.29 The total weight of a group of 5 friends is 55 kg. They are joined by Bheem, a new friend, and the average weight of the new group becomes 12 kg. What is Bheem's weight in kg?

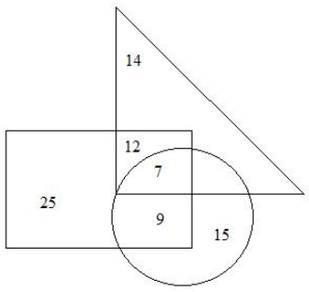
Ans
1. 14 kg
2. 17 kg
3. 15 kg
4. 18 kg

Question ID : **1501837027**
Status : **Answered**
Chosen Option : **2**

Q.30

In the following diagram, the rectangle represents students who like to play football, the circle represents students who like to play cricket, and the triangle represents students who like to play baseball.

How many students like to play either baseball or football or both but do NOT like to play cricket?



Ans
1. 12
2. 51
3. 39
4. 58

Question ID : **1501837034**
Status : **Answered**
Chosen Option : **2**

Q.31 Given below are two statements labelled A and B, followed by two conclusions numbered I and II. Assuming that the information given in the statements and conclusions are true, even if it appears to be at variance with commonly known facts, select the conclusion(s) that logically and definitely follow(s) from the two given statements.

Statement A: All butterflies are fireflies.
Statement B: All fireflies are crickets.

Conclusion I: Some crickets are fireflies.
Conclusion II: Some crickets are butterflies.

Ans
1. Only conclusion I follows.
2. Neither conclusion follows.
3. Only conclusion II follows.
4. Both the conclusions follow.

Question ID : **1501837012**
Status : **Answered**
Chosen Option : **4**

Q.32 Select the number that is different from the rest.

5, 23, 3, 2, 7, 11, 6, 17, 29

Ans
1. 29
2. 2
3. 6
4. 5

Question ID : **1501837032**
Status : **Not Answered**
Chosen Option : **--**

Q.33 Which one of these words will appear third when arranged in alphabetical order as in the English dictionary?

1. Reign
2. Regent
3. Reinstate
4. Reiterate
5. Riesling

Ans
1. Riesling
2. Reign
3. Reinstate
4. Reiterate

Question ID : **1501836997**
Status : **Answered**
Chosen Option : **3**

Q.34 Among five girls in a class, Mia is taller than Tia, Sia is taller than Dia, Dia is taller than Mia and Tia is taller than Jia. Who among the given girls is the tallest?

Ans
1. Sia
2. Dia
3. Tia
4. Mia

Question ID : **1501837008**
Status : **Answered**
Chosen Option : **1**

Q.35 Kanishk runs faster than Garvit. Harpreet runs faster than Tapsee. Which of the following statements is required (and sufficient) to conclude who among these friends runs the fastest?

Ans
1. Kanishk runs faster than Tapsee.
2. Harpreet runs faster than Garvit.
3. Garvit runs faster than Harpreet.
4. Tapsee runs faster than Garvit.

Question ID : **1501837007**
Status : **Answered**
Chosen Option : **1**

Q.36 A merchant bought 3 dozen trousers and 3 dozen shirts for ₹27,000. The cost of 2 trousers was the same as the cost of 3 shirts. At what price should he sell each shirt and trouser to make a profit of 10% on each item?

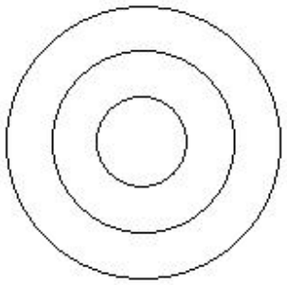
Ans
1. Shirt at ₹270; trousers at ₹405
2. Shirt at ₹330; trousers at ₹495
3. Shirt at ₹350; trousers at ₹510
4. Shirt at ₹300; trousers at ₹445

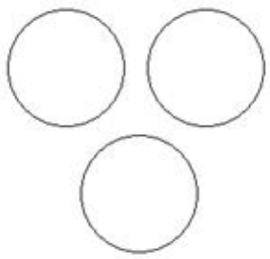
Question ID : **1501837030**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.37 Select the option that correctly represents the relationship between the classes given below.

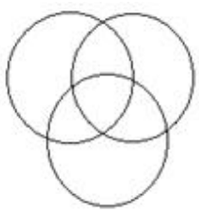
Telephone, Communication Devices, Cordless phone

Ans

1. 

2. 

3. 

4. 

Question ID : **1501837036**
Status : **Answered**
Chosen Option : **1**

Q.38 Given below are two statements labelled A and B, followed by two conclusions numbered I and II. Assuming that the information given in the statements and conclusions are true even if it appears to be at variance with commonly known facts, select the conclusion(s) that logically and definitely follow(s) from the two given statements.

Statement A: Only postgraduates are managers.
Statement B: No engineer is a manager.

Conclusion I: Some managers are engineers.
Conclusion II: All managers are postgraduates.

Ans

1. Only conclusion II follows.
2. Only conclusion I follows.
3. Both the conclusions follow.
4. Neither conclusion follows.

Question ID : **1501837014**
Status : **Answered**
Chosen Option : **4**

Q.39 Read the information given below and answer the question that follows by choosing the most appropriate option.

Eight friends, Aditya, Barkha, Candy, Dharam, Ekta, Fehmida, Geeta and Heena, are sitting around a circular table, all facing away from the centre of the table. All positions are at equal distance from each other.

Dharam is third to the left of Fehmida.
Ekta and Geeta always sit immediately next to each other.
Heena is third to the right of Geeta.
Aditya sits to the immediate left of Candy.
Fehmida is second to the right of Barkha.
Candy sits immediately next to neither Fehmida nor Dharam.

Who is sitting second to the left of Ekta?

Ans

1. Candy
2. Dharam
3. Aditya
4. Barkha

Question ID : **1501837042**
Status : **Not Answered**
Chosen Option : **--**

Q.40 Raheem bought 5 mangoes for a certain amount of money. He bought 8 apples with an equal amount of money. What is the ratio of the price of a mango to that of an apple?

Ans
1. 8 : 5
2. 5 : 13
3. 13 : 5
4. 5 : 8

Question ID : **1501837029**
Status : **Answered**
Chosen Option : **1**

Q.41 Which one of the number pairs given in the options is similar to the one given below?

13 : 169

Ans
1. 15 : 625
2. 9 : 90
3. 17 : 289
4. 12 : 121

Question ID : **1501837033**
Status : **Answered**
Chosen Option : **3**

Q.42 Given below are two statements labelled A and B, followed by two conclusions numbered I and II. Assuming that the information given in the statements and conclusions are true even if it appears to be at variance with commonly known facts, select the conclusion(s) that logically and definitely follow(s) from the two given statements.

Statement A: All mugs are cups.
Statement B: Some cups are bowls.

Conclusion I: Some bowls are cups.
Conclusion II: Some bowls are mugs.

Ans
1. Only conclusion I follows.
2. Both the conclusions follow.
3. Neither conclusion follows.
4. Only conclusion II follows.

Question ID : **1501837013**
Status : **Answered**
Chosen Option : **1**

Q.43 Ganesh went from his hometown to his grandfather's village. He started his journey facing west. First, he went 15 km straight. Then he turned to his left and went 23 km. Finally, he turned right and walked 7 km to reach his grandfather's village.

In which direction is Ganesh's hometown located with respect to his grandfather's village?

Ans
1. North-west

2. South-west
3. North-east
4. South-east

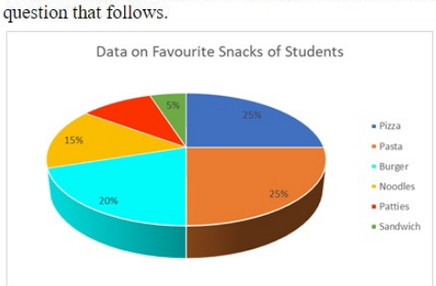
Question ID : **1501837010**
Status : **Answered**
Chosen Option : **3**

Q.44 Five friends, Navya, Atharva, Sakshi, Pranita and Drishtant, were sitting around a circular table facing the centre of the table. Drishtant was sitting next to neither Navya nor Sakshi. Sakshi had Pranita sitting to her immediate left. Who among the following was sitting to Navya's immediate right?

Ans
1. Pranita
2. Sakshi
3. Drishtant
4. Atharva

Question ID : **1501837006**
Status : **Answered**
Chosen Option : **4**

Q.45 The pie-chart below shows the favourite snacks of 300 students of a school. Study the given information and answer the question that follows.



How many students like pizza?

Ans
1. 45
2. 60
3. 90
4. 75

Question ID : **1501837021**
Status : **Answered**
Chosen Option : **4**

Q.46 Which one of the pairs of words given in the options shares the same relation as the pair given below does?

Brave : Coward

Ans
1. Loud : Raucous
2. Frugal : Greedy
3. Blatant : Outright
4. Generous : Stingy

Question ID : **1501836999**
Status : **Answered**
Chosen Option : **4**

Q.47

The table below presents the data of 6 children's performances in a mid-term examination. The maximum marks for each subject are 100. Study the given information and answer the question that follows.

Marks scored by students of a class						
Subjects	Students					
	Abraham	Basant	Chinmay	Dua	Ela	Fauzia
Physics	87	97	93	74	61	79
Chemistry	68	63	95	73	41	63
Biology	83	91	66	56	69	55
Mathematics	56	65	42	68	56	99
IT	91	91	93	98	81	85
English	84	63	74	82	74	68

In which subject did most of the students score more than 75%?

Ans
1. Maths
2. English
3. IT
4. Physics

Question ID : **1501837017**
Status : **Answered**
Chosen Option : **3**

Q.48 In a code language, 'huki mil ist' means 'bird can fly'; 'kun tid huki' means 'eye of bird'; 'kun tid min' means 'eye of fish'; 'jed sil ist' means 'frog can swim'; and 'jed mil ist' means 'frog can fly'. Which one of the following statements in that code language would mean 'fish can swim'?

Ans
1. Min sil ist
2. Min kun tid
3. Min tid est
4. Jed tid min

Question ID : **1501837005**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.49 Given below are two statements followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts and then decide which of the given conclusions logically follow(s) from the given statements.

Statements:
I. Some flowers are fruits.
II. All fruits are roots.

Conclusions:
I. All roots are fruits.
II. Some roots are flowers.

Ans
1. Only conclusion I follows
2. Only conclusion II follows
3. Both I and II follow
4. Neither I nor II follows

Question ID : **1501837041**
Status : **Answered**
Chosen Option : **2**

Q.50 Vanita distributed a certain amount of money among her three children, Geeta, Lalita and Babita, in the ratio of 5 : 4 : 3 respectively. If Lalita's share was ₹24,000, what was the total amount that Vanita distributed?

Ans
1. ₹48,000
2. ₹72,000
3. ₹84,000
4. ₹56,000

Question ID : **1501837028**
Status : **Answered**
Chosen Option : **2**

Section : **General Knowledge**

Q.1 Who was the first Indian woman to win an Olympic medal?

Ans
✗ 1. Anju Bobby George
✗ 2. PT Usha
✓ 3. Karnam Malleswari
✗ 4. Mary Kom

Question ID : **1501837056**
Status : **Answered**
Chosen Option : **3**

Q.2 Which of the following schemes of West Bengal government has won the prestigious World Summit on the Information Society (WSIS) awards of the United Nations in 2019?

(A) Khadya Sathi
(B) Utkarsh Bangla
(C) Shikshashree
(D) Sabooj Sathi

Ans
✗ 1. A and C
✓ 2. B and D
✗ 3. A and B
✗ 4. C and D

Question ID : **1501837045**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.3 Under which article of the Constitution of India does the Supreme Court have the power to punish for contempt of itself?

Ans
✗ 1. Article 137
✗ 2. Article 126
✓ 3. Article 129
✗ 4. Article 144

Question ID : **1501837049**
Status : **Answered**
Chosen Option : **1**

Q.4 Who among the following assents to a Bill passed by the State Legislature (under Article 200 of the Constitution of India)?

Ans
✗ 1. The Chief Minister
✗ 2. The Prime Minister
✓ 3. The Governor
✗ 4. The Speaker of the Legislative Assembly

Question ID : **1501837050**
Status : **Answered**
Chosen Option : **4**

Q.5

What is the highest rate of Statutory Liquidity Ratio (SLR) that can be specified by the Reserve Bank of India for the banks?

Ans
1. 35%
2. 45%
3. 40%
4. 30%

Question ID : **1501837060**
Status : **Not Answered**
Chosen Option : **--**

Q.6 In which state is the Nokrek National Park located?

Ans
1. Tripura
2. Manipur
3. Meghalaya
4. Assam

Question ID : **1501837058**
Status : **Answered**
Chosen Option : **3**

Q.7 Rajasthan enjoys virtual monopoly in the production of which of the following minerals?

Ans
1. Manganese
2. Iron ore
3. Zinc
4. Copper

Question ID : **1501837057**
Status : **Answered**
Chosen Option : **4**

Q.8 Gurjara-Pratiharas originally came to the Indian subcontinent from:

Ans
1. Mongolia
2. Western Asia
3. Central Asia
4. Arabia

Question ID : **1501837064**
Status : **Not Answered**
Chosen Option : **--**

Q.9 Awadh was one of the last territories to be annexed by British. In 1801, a subsidiary alliance was imposed on Awadh and in _____, it was taken over.

Ans
1. 1811
2. 1856
3. 1802
4. 1858

Question ID : **1501837063**
Status : **Not Answered**

Chosen Option : --

Q.10 What are the tiny pores present on the surface of leaves known as?

Ans
1. Cytoplasm ✗
2. Mitochondria ✗
3. Stomata ✓
4. Nucleus ✗

Question ID : **1501837053**
Status : **Answered**
Chosen Option : **3**

Q.11 Before giving decision on questions as to disqualifications of Members of Parliament under Article 103 of the Constitution of India, the President obtains the opinion of:

Ans
1. the Attorney-General ✗
2. the Prime Minister ✗
3. the Election Commission ✓
4. the Supreme Court ✗

Question ID : **1501837051**
Status : **Answered**
Chosen Option : **2**

Q.12 Which of the following is a unicellular organism?

Ans
1. Ant ✗
2. Yeast ✓
3. Hydra ✗
4. Sea-anemone ✗

Question ID : **1501837052**
Status : **Marked For Review**
Chosen Option : **2**

Q.13 Which was the biggest export item of India in terms of value in the year 2018?

Ans
1. Gold and other precious metal jewellery ✗
2. Petroleum products ✓
3. Pearl, precious and semi-precious stones ✗
4. RMG cotton including accessories ✗

Question ID : **1501837061**
Status : **Answered**
Chosen Option : **1**

Q.14 Which of the following Indian wrestlers has won a gold medal at the Asian Wrestling Championships 2019 in China?

Ans
1. Bajrang Punia ✓
2. Praveen Rana ✗
3. Rahul Aware ✗

✗ 4. Amit Dhankar

Question ID : **1501837046**
Status : **Answered**
Chosen Option : **1**

Q.15 In which mode of nutrition do organisms make food themselves from simple substances?

Ans
✗ 1. Ambitrophic
✓ 2. Autotrophic
✗ 3. Heterotrophic
✗ 4. Dextrophic

Question ID : **1501837054**
Status : **Answered**
Chosen Option : **2**

Q.16 What is India's rank in the World Press Freedom Index, 2019, out of 180 countries in the annual Reporters Without Borders analysis?

Ans
✗ 1. 130^{th}
✗ 2. 110^{th}
✓ 3. 140^{th}
✗ 4. 120^{th}

Question ID : **1501837047**
Status : **Answered**
Chosen Option : **1**

Q.17 Which Indian film has won the Best Cinematography award at Beijing International Film Festival, 2019?

Ans
✓ 1. Bhayanakam
✗ 2. Village Rockstars
✗ 3. Nagar Kirtan
✗ 4. Baahubali 2

Question ID : **1501837048**
Status : **Answered**
Chosen Option : **2**

Q.18 With which sport is eminent sportsperson Chanu Saikhom Mirabai associated?

Ans
✗ 1. Table tennis
✗ 2. Shooting
✓ 3. Weightlifting
✗ 4. Wrestling

Question ID : **1501837055**
Status : **Answered**
Chosen Option : **4**

Q.19

9 Which among the following states of India shares an international border with Nepal?

Ans
✔ 1. Bihar
✘ 2. Jharkhand
✘ 3. Madhya Pradesh
✘ 4. Rajasthan

Question ID : **1501837059**
Status : **Answered**
Chosen Option : **1**

Q.20 In which city did famous Sufi saint Muin-ud-din Chishti live most of his life?

Ans
✘ 1. Aligarh
✔ 2. Ajmer
✘ 3. Delhi
✘ 4. Lucknow

Question ID : **1501837062**
Status : **Not Answered**
Chosen Option : **--**

Section : **General English**

Q.1 Select the most appropriate ANTONYM of the given word.

INCORRIGIBLE

Ans
✘ 1. legal
✔ 2. reformable
✘ 3. irreparable
✘ 4. legible

Question ID : **1501837072**
Status : **Answered**
Chosen Option : **1**

Q.2 Select the most appropriate synonym of the given word.

BALEFUL

Ans
✘ 1. rude
✔ 2. deadly
✘ 3. auspicious
✘ 4. promising

Question ID : **1501837067**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.3 Select the option in which the usage of the given word is INCORRECT or INAPPROPRIATE.

CONTROL

Ans
1. ✗
Why are you losing control of yourself over this petty matter?
2. ✓ We can do nothing except let control take its own course.
3. ✗
The pilot began panicking when the controls of the aircraft failed to function.
4. ✗
To keep the population in check, birth control methods need to be implemented.

Question ID : **1501837094**
Status : **Answered**
Chosen Option : **2**

Q.4 Select the most appropriate option to complete the sentence.

He shouted _____ the top of his voice, but nobody heard him.

Ans
1. ✗ on
2. ✓ at
3. ✗ upon
4. ✗ with

Question ID : **1501837075**
Status : **Answered**
Chosen Option : **1**

Q.5 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the right order to form a meaningful and coherent paragraph.

A. Mars, I knew, was smaller than Earth and probably much older.
B. My astronomer friends speculated on these strange meteors.
C. I was interested in Mars, interested enough to observe the planet often through the telescope.
D. One night in the observatory, I noticed a small pinpoint of a light leave our neighbouring planet.
E. Later I saw three more shooting off into space.

Ans
1. ✗ CBDAE
2. ✗ DEACB
3. ✓ CADEB
4. ✗ BCEAD

Question ID : **1501837101**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.6 Select the option in which the usage of the given word is INCORRECT or INAPPROPRIATE.

EXPENSE

Ans
1. ✗
He became a good scholar, but only at the expense of his health.
2. ✗ Most children in India are educated at public expense.
3. ✗ We had a good laugh at his expense.
4. ✓ A man of your expense should do well in life.

Question ID : **1501837092**
Status : **Not Answered**
Chosen Option : **--**

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

DISTRAUGHT

Ans
1. disconnected
2. disciplined
3. disinterested
4. distressed

Question ID : **1501837068**
Status : **Not Answered**
Chosen Option : **--**

Q.8 Fill in the blank with the most appropriate option.

See, how time flies! She has already grown _____ her tricycle.

Ans
1. down on
2. up off
3. out of
4. away from

Question ID : **1501837081**
Status : **Answered**
Chosen Option : **3**

Q.9 Select the option in which the usage of the given word is INCORRECT or INAPPROPRIATE.

FIGURE

Ans
1. A six-figure salary was unimaginable a couple of decades ago.
2. A day after the tragedy the figures for the dead and missing kept rising.
3. The blackboard was covered with geometrical figures.
4. We are figuring a strong team in the next tournament.

Question ID : **1501837093**
Status : **Not Answered**
Chosen Option : **--**

Q.10 Select the option that best gives the meaning of the underlined word.

He is absolutely the person you are looking for because I know him to be a very scrupulous young man.

Ans
1. Enthusiastic
2. Responsible
3. Conscious
4. Conscientious

Question ID : **1501837066**
Status : **Not Answered**
Chosen Option : **--**

Q.11 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the right order to form a meaningful and coherent paragraph.

A. The nuns gather for a two-hour session for prayer and meditation.
B. In Mother's House, the day begins at 4.30 am.
C. There is an enormous amount of washing to be done.
D. Then they get to work.

Ans
✔ 1. BADC
✘ 2. DCBA
✘ 3. DBAC
✘ 4. BDCA

Question ID : **1501837098**
Status : **Not Answered**
Chosen Option : **--**

Q.12 Select the correctly spelt word.

Ans
✘ 1. quadrilatral
✘ 2. quadreleteral
✔ 3. quadrilateral
✘ 4. qadrilateral

Question ID : **1501837086**
Status : **Answered**
Chosen Option : **3**

Q.13 Select the option which is NOT an antonym of another word by way of adding the prefix 'dis-'.

Ans
✔ 1. discrepancy
✘ 2. discredit
✘ 3. disagree
✘ 4. discolour

Question ID : **1501837074**
Status : **Not Answered**
Chosen Option : **--**

Q.14 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the right order to form a meaningful and coherent paragraph.

A. A four-year-old girl from Arkansas was on a church bus when the bus door opened.
B. A volunteer firefighter was driving behind the bus.
C. She fell out onto the highway.
D. He would not normally do this, but there was a lot of traffic.
E. He quickly came to the girl and picked her up.

Ans
✘ 1. BDEAC
✘ 2. BEDAC
✔ 3. ACBED
✘ 4. ACEBD

Question ID : **1501837102**
Status : **Not Answered**
Chosen Option : **--**

Q.15

5 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the right order to form a meaningful and coherent paragraph.

A. It was faster because the current carried me along.
B. On land I picked my way, careful to watch where I put my feet.
C. Whenever I could get a good view ahead, I risked swimming.
D. 'If you tread on a crab,' I told myself, 'you're done for.'
E. The river that I was following in the jungle was widening.

Ans
1. EACDB ✗
2. CDBEA ✗
3. ECABD ✓
4. DBEAC ✗

Question ID : **1501837100**
Status : **Not Answered**
Chosen Option : **--**

Q.16 Fill in the blank with the most appropriate option.

They have been constructing their house _____ six months now.

Ans
1. since ✗
2. by ✗
3. from ✗
4. for ✓

Question ID : **1501837076**
Status : **Answered**
Chosen Option : **3**

Q.17 Select the most appropriate synonym of the given word.

FORTITUDE

Ans
1. apathy ✗
2. courage ✓
3. lethargy ✗
4. graciousness ✗

Question ID : **1501837069**
Status : **Answered**
Chosen Option : **2**

Q.18 Fill in the blank with the most appropriate option.

_____ you start preparing for your exams which starts next month.

Ans
1. There is a time ✗
2. It's the time ✗
3. There's time ✗
4. It's time ✓

Question ID : **1501837083**
Status : **Answered**
Chosen Option : **2**

Q.19 Select the option that best gives the meaning of the underlined word.

He has such an inquisitive mind that he annoys people by his constant questioning.

Ans
1. Curious ✔
2. Brilliant ✘
3. Complex ✘
4. Mature ✘

Question ID : **1501837065**
Status : **Not Answered**
Chosen Option : **--**

Q.20 Sentences of a paragraph are given below. While the first and the last sentences are in correct order, the sentences in between are jumbled up. Arrange the sentences in the right order to form a meaningful and coherent paragraph.

A. Cyclone Idai hit southern Africa over a month ago, yet the death toll from the storm continues to grow.
B. Officials say that more than 1,000 people have been reported dead in Mozambique, Zimbabwe and Malawi in the aftermath.
C. Damage assessments are still being conducted in all three countries, but the recovery costs could add up to more than $2 billion.
D. Thousands of others were injured and millions more affected.
E. There is also big concern over diseases in the flooded areas.
F. The World Health Organization announced a vaccination campaign to combat a cholera outbreak in Mozambique.

Ans
1. CBED ✘
2. DCBE ✘
3. BECD ✘
4. BDCE ✔

Question ID : **1501837103**
Status : **Not Answered**
Chosen Option : **--**

Q.21 Select the most appropriate synonym of the given word.

REPROBATION

Ans
1. sanction ✘
2. ratification ✘
3. commendation ✘
4. condemnation ✔

Question ID : **1501837070**
Status : **Not Answered**
Chosen Option : **--**

Q.22 Select the most appropriate ANTONYM of the given word.

ENTHUSIASM

Ans
1. nervousness ✘
2. indifference ✔
3. eagerness ✘
4. fervour ✘

Question ID : **1501837071**
Status : **Answered**

Chosen Option : **1**

Q.23 Fill in the blank with the most appropriate option.

_____ his son sends money, Gopal Prasad cannot buy clothes for the winter.

Ans
- ✔ 1. Unless
- ✘ 2. If
- ✘ 3. Because
- ✘ 4. Still

Question ID : **1501837078**
Status : **Answered**
Chosen Option : **1**

Q.24 Fill in the blank with the most appropriate option.

The secretary dispensed _____ the services of the dishonest assistant.

Ans
- ✘ 1. of
- ✘ 2. by
- ✘ 3. away
- ✔ 4. with

Question ID : **1501837077**
Status : **Answered**
Chosen Option : **3**

Q.25 Select the INCORRECTLY spelt word.

Ans
- ✔ 1. simulteneous
- ✘ 2. silhouette
- ✘ 3. situated
- ✘ 4. significant

Question ID : **1501837089**
Status : **Answered**
Chosen Option : **1**

Q.26 Select the option in which the usage of the given word is INCORRECT or INAPPROPRIATE.

FILE

Ans
- ✔ 1. He was filed for not returning the book on time.
- ✘ 2. When I met her last, she was filing her nails.
- ✘ 3. I searched for my personal file but couldn't find it.
- ✘ 4. We will walk in a single file on this narrow path.

Question ID : **1501837091**
Status : **Answered**
Chosen Option : **1**

Q.27

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

A. Every year during autumn and early winter, birds travel from cold northern regions to warm southern lands.
B. They make the return journey again during spring and early summer.
C. They are very punctual too, unless they are delayed by bad weather.
D. One of the greatest mysteries of bird life is migration or travelling.

Ans
✗ 1. ACBD
✗ 2. DCBA
✗ 3. ABCD
✓ 4. DABC

Question ID : **1501837099**
Status : **Not Answered**
Chosen Option : **--**

Q.28 Sentences of a paragraph are given below. While the first sentence is in the correct order, the sentences below it are jumbled up. Arrange the sentences in the right order to form a meaningful and coherent paragraph.

A. There was a great deal of trouble in the city the other day.
B. It walked across the public gardens and through a busy street.
C. Then it entered a mall and hid in a shop.
D. A leopard got out of the forest and came into the town on its own.

Ans
✗ 1. ACBD
✗ 2. ABCD
✓ 3. ADBC
✗ 4. ACDB

Question ID : **1501837096**
Status : **Not Answered**
Chosen Option : **--**

Q.29 Sentences of a paragraph are given below. While the first sentence is in the correct order, the sentences below it are jumbled up. Arrange the sentences in the right order to form a meaningful and coherent paragraph.

A. The guide warned us that we would have to climb 937 steps to reach the top of the ancient tower.
B. We occasionally passed small windows cut into the wall.
C. At first we started counting the steps ourselves, but we soon lost patience.
D. As these gave little light, we felt as if we were going round and round a dark tunnel.

Ans
✗ 1. ABCD
✓ 2. ACBD
✗ 3. ACDB
✗ 4. ADBC

Question ID : **1501837095**
Status : **Not Answered**
Chosen Option : **--**

Q.30 Fill in the blank with the most appropriate option.

If you want to go on a holiday in summer, you _____ the bookings done at least two months in advance.

Ans
✗ 1. have to better get
✗ 2. had better get
✗ 3. had better got
✓ 4. better get

Question ID : **1501837084**

Status : **Not Answered**
Chosen Option : **--**

Q.31 Fill in the blank with the most appropriate option.

The CM was pleased to announce that the elevated corridor _____ by the end of last year.

Ans
1. has been building ✗
2. had been built ✓
3. was building ✗
4. is being built ✗

Question ID : **1501837082**
Status : **Answered**
Chosen Option : **2**

Q.32 Select the INCORRECTLY spelt word.

Ans
1. extraneous ✗
2. extinguish ✗
3. exuberance ✗
4. extravagence ✓

Question ID : **1501837088**
Status : **Answered**
Chosen Option : **4**

Q.33 Select the correctly spelt word.

Ans
1. schizofrenia ✗
2. scizophrenia ✗
3. schitzophrenia ✗
4. schizophrenia ✓

Question ID : **1501837087**
Status : **Answered**
Chosen Option : **4**

Q.34 Select the most appropriate option to complete the sentence.

Scarcely had I reached the roof to set the antenna right _____ it started raining.

Ans
1. before ✗
2. than ✗
3. till ✗
4. when ✓

Question ID : **1501837080**
Status : **Answered**
Chosen Option : **2**

Q.35 Select the correctly spelt word.

Ans

1. heineous
2. heinous
3. heinuous
4. hienous

Question ID : **1501837085**
Status : **Not Answered**
Chosen Option : **--**

Q.36 Select the option in which the usage of the given word is INCORRECT or INAPPROPRIATE.

COURT

Ans
1. The court went into mourning when the king's uncle died.
2. The prisoner was brought to court for trial.
3. He has been courting Eliza for six months.
4. Don't worry. He will come as a matter of court.

Question ID : **1501837090**
Status : **Answered**
Chosen Option : **3**

Q.37 Select the option which is NOT an antonym of another word by way of adding the prefix 'in-'.

Ans
1. indigestion
2. infinite
3. initiative
4. infertile

Question ID : **1501837073**
Status : **Answered**
Chosen Option : **3**

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

A. This was a huge and unfriendly swordfish.
B. A terrifying visitor arrived one day later in the voyage.
C. It followed the raft for twelve hours and sometimes bumped against it.
D. If it had really attacked the rubber raft, that would have been the end of our experiment.

Ans
1. BCAD
2. BACD
3. ABCD
4. CDAB

Question ID : **1501837097**
Status : **Not Answered**
Chosen Option : **--**

Q.39

Sentences of a paragraph are given below. While the first and the last sentences are in correct order, the sentences in between are jumbled up. Arrange the sentences in the right order to form a meaningful and coherent paragraph.

A. On Sunday morning, at least eight explosions in Sri Lanka killed more than 300 people and injured 500.
B. Sri Lankan officials previously accused a local Islamist militant group, but now people believe that multiple organisations are behind the deadly bombings.
C. Both locals and foreigners fell victim to the bombings which mark the country's worst violence since the end of the Sri Lankan Civil War in 2009.
D. Sri Lanka's defence minister said that the explosions might have been in retaliation to the shootings at two mosques in New Zealand last month.
E. ISIS claimed responsibility for the bombings via its Amaq news agency, but it did not provide any evidence.
F. According to the Associated Press, the Sri Lankan security agencies had previous warning of a suicide attack.

Ans

✔ 1. CDEB
✘ 2. BECD
✘ 3. DBCE
✘ 4. CBED

Question ID : **1501837104**
Status : **Not Answered**
Chosen Option : **--**

Q.40 Fill in the blank with the most appropriate option.

Trisha remained in the good books of the Head _____ she did what he wanted.

Ans

✘ 1. while
✘ 2. so that
✘ 3. even though
✔ 4. as long as

Question ID : **1501837079**
Status : **Not Answered**
Chosen Option : **--**

Comprehension:

Read the given passage and answer the questions that follow.

Americans alone are responsible for producing a whopping 220 million tonnes of waste a year. This number is far more than any other nation in the world. Because of this fact, both the government and environmental associations have developed numerous methods of dealing with the problem. Waste management is that solution. It is collection, transportation and disposal of garbage, sewage and other waste products.

Waste management offers variety of solutions for recycling items that don't belong to trash. It is about how garbage can be used as a valuable resource. Waste management is something that each and every household and business owner in the world needs. Waste management disposes of the products and substances that you have used in a safe and efficient manner.

The easier method of waste management is to reduce creation of waste materials thereby reducing the amount of waste going to landfills. Waste reduction can be done through recycling old materials like jars, bags, repairing broken items instead of buying new ones and avoiding use of disposable products like plastic bags and reusing second-hand items.

Recycling and composting are a couple of the best methods of waste management. Composting is so far only possible in areas where waste can be mixed with farming soil or used for landscaping purposes. Recycling is widely used around the world, with plastic, paper and metal leading the list of the most recyclable items.

There are certain waste types that are considered as hazardous and cannot be disposed of without special handling which will prevent contamination from occurring. Biomedical waste is one example of such. This is found in health care facilities and similar institutions. The special waste disposal system for this unit is in place to dispose of this type of waste.

SubQuestion No : 41

Q.41 Which of the following items is NOT recyclable?

Ans
✗ 1. Paper
✓ 2. Hospital waste
✗ 3. Plastic
✗ 4. Metal

Question ID : **1501837109**
Status : **Answered**
Chosen Option : **2**

Comprehension:

Read the given passage and answer the questions that follow.

Americans alone are responsible for producing a whopping 220 million tonnes of waste a year. This number is far more than any other nation in the world. Because of this fact, both the government and environmental associations have developed numerous methods of dealing with the problem. Waste management is that solution. It is collection, transportation and disposal of garbage, sewage and other waste products.

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There are certain waste types that are considered as hazardous and cannot be disposed of without special handling which will prevent contamination from occurring. Biomedical waste is one example of such. This is found in health care facilities and similar institutions. The special waste disposal system for this unit is in place to dispose of this type of waste.

SubQuestion No : 42

Q.42 What kind of waste is considered hazardous?

Ans
✔ 1. Biomedical waste
✘ 2. Plastic bags
✘ 3. Paper and metal
✘ 4. Broken jars

Question ID : **1501837108**
Status : **Answered**
Chosen Option : **1**

Comprehension:

Read the given passage and answer the questions that follow.

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There are certain waste types that are considered as hazardous and cannot be disposed of without special handling which will prevent contamination from occurring. Biomedical waste is one example of such. This is found in health care facilities and similar institutions. The special waste disposal system for this unit is in place to dispose of this type of waste.

SubQuestion No : 43

Q.43 Which of the following gives a comprehensive definition of waste management?

Ans

1. ✗ Waste management is recycling items that don't belong to the trash.
2. ✓ Waste management is collection, transportation and disposal of garbage, sewage and other waste products.
3. ✗ Waste management is disposing of the used products and substances in a safe and efficient manner.
4. ✗ Waste management is reducing creation of waste materials.

Question ID : **1501837107**
Status : **Answered**
Chosen Option : **2**

Comprehension:

Read the given passage and answer the questions that follow.

Americans alone are responsible for producing a whopping 220 million tonnes of waste a year. This number is far more than any other nation in the world. Because of this fact, both the government and environmental associations have developed numerous methods of dealing with the problem. Waste management is that solution. It is collection, transportation and disposal of garbage, sewage and other waste products.

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There are certain waste types that are considered as hazardous and cannot be disposed of without special handling which will prevent contamination from occurring. Biomedical waste is one example of such. This is found in health care facilities and similar institutions. The special waste disposal system for this unit is in place to dispose of this type of waste.

SubQuestion No : 44

Q.44 Which statement is NOT true according to the passage?

Ans

✗ 1. Waste reduction means recycling old materials like jars, bags and repairing broken items.

✓ 2. Avoiding use of disposable products like plastic bags is a way of recycling waste.

✗ 3. Specialised disposal system is required for biomedical waste.

✗ 4. Composting is done in areas where farming soil is used.

Question ID : **1501837110**
Status : **Answered**
Chosen Option : **2**

Comprehension:

Read the given passage and answer the questions that follow.

Americans alone are responsible for producing a whopping 220 million tonnes of waste a year. This number is far more than any other nation in the world. Because of this fact, both the government and environmental associations have developed numerous methods of dealing with the problem. Waste management is that solution. It is collection, transportation and disposal of garbage, sewage and other waste products.

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SubQuestion No : 45

Q.45 The passage is mainly about:

Ans
✔ 1. methods of waste management
✘ 2. America's solution to waste disposal
✘ 3. recycling and composting
✘ 4. ways to reduce the waste

Question ID : **1501837106**
Status : **Answered**
Chosen Option : **1**

Comprehension:

Read the given passage and answer the questions that follow.

The first European street lighting, established in the 1660s, marked an extraordinary turning point in the history of the night. The spread of street lighting across Northern Europe was based in part on the refinement of lamp and lantern design. The decisive steps were taken in Amsterdam, where the painter and inventor Jan van der Heyden (1637–1712) experimented during the 1660s with oil-lamps in glass-paned lanterns. Lamp-lanterns of his sophisticated design made Amsterdam the first European city to install truly effective street lighting. Admiring the city, the German student Friedrich Lucae commented that "in the evening the entire city is illuminated with lanterns, so that one can pass through the crowds of people just as in broad daylight."

When we see early modern street lighting as an international development, the political initiative to establish the lighting becomes especially significant. Despite its presumed benefits, city councils were not eager to incur the new expense of public lighting. Patricians in self-governing cities such as Amsterdam and Hamburg chose to set up and pay for street lighting themselves, but they were the exception. In most cases, territorial rulers established the lighting in their capital cities and forced their subjects to pay for it. In cities including Paris, Turin, Berlin and Vienna, the initiative came from the monarch. In London and Westminster, private street-lighting companies contracted with the city to light specific streets and collect the corresponding fees; in Dublin (1697) and Lübeck (1704), individual entrepreneurs tried to provide the service.

The introduction of street lighting in Paris in 1667 by Louis XIV was the first of many cases of royal initiative to provide public lighting. Jean Baptiste Colbert proposed the street lighting in December 1666, and he and his uncle Henri Pussort carried out the lighting project in 1667. The lighting and improved street cleaning were financed by a new 'tax of mud and lanterns', which became the only significant direct tax on householders in Paris under the Old Regime. By 1702, there were 5,400 public candle-lanterns in place across the city, lit from October to March.

SubQuestion No : 46

Q.46 In which city of Europe did regular street lighting start?

Ans
✔ 1. Amsterdam
✘ 2. Paris
✘ 3. Vienna
✘ 4. London

Question ID : **1501837113**
Status : **Answered**
Chosen Option : **1**

Comprehension:

Read the given passage and answer the questions that follow.

The first European street lighting, established in the 1660s, marked an extraordinary turning point in the history of the night. The spread of street lighting across Northern Europe was based in part on the refinement of lamp and lantern design. The decisive steps were taken in Amsterdam, where the painter and inventor Jan van der Heyden (1637–1712) experimented during the 1660s with oil-lamps in glass-paned lanterns. Lamp-lanterns of his sophisticated design made Amsterdam the first European city to install truly effective street lighting. Admiring the city, the German student Friedrich Lucae commented that "in the evening the entire city is illuminated with lanterns, so that one can pass through the crowds of people just as in broad daylight."

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SubQuestion No : 47

Q.47 After reading the passage, it can be said that it is an extract from:

Ans
1. ✗ an 18th century news
2. ✗ a scientific article on the design of street lamps
3. ✓ an article on the history of street lighting
4. ✗ a survey of European cities

Question ID : **1501837112**
Status : **Not Answered**
Chosen Option : **--**

Comprehension:

Read the given passage and answer the questions that follow.

The first European street lighting, established in the 1660s, marked an extraordinary turning point in the history of the night. The spread of street lighting across Northern Europe was based in part on the refinement of lamp and lantern design. The decisive steps were taken in Amsterdam, where the painter and inventor Jan van der Heyden (1637–1712) experimented during the 1660s with oil-lamps in glass-paned lanterns. Lamp-lanterns of his sophisticated design made Amsterdam the first European city to install truly effective street lighting. Admiring the city, the German student Friedrich Lucae commented that "in the evening the entire city is illuminated with lanterns, so that one can pass through the crowds of people just as in broad daylight."

When we see early modern street lighting as an international development, the political initiative to establish the lighting becomes especially significant. Despite its presumed benefits, city councils were not eager to incur the new expense of public lighting. Patricians in self-governing cities such as Amsterdam and Hamburg chose to set up and pay for street lighting themselves, but they were the exception. In most cases, territorial rulers established the lighting in their capital cities and forced their subjects to pay for it. In cities including Paris, Turin, Berlin and Vienna, the initiative came from the monarch. In London and Westminster, private street-lighting companies contracted with the city to light specific streets and collect the corresponding fees; in Dublin (1697) and Lübeck (1704), individual entrepreneurs tried to provide the service.

The introduction of street lighting in Paris in 1667 by Louis XIV was the first of many cases of royal initiative to provide public lighting. Jean Baptiste Colbert proposed the street lighting in December 1666, and he and his uncle Henri Pussort carried out the lighting project in 1667. The lighting and improved street cleaning were financed by a new 'tax of mud and lanterns', which became the only significant direct tax on householders in Paris under the Old Regime. By 1702, there were 5,400 public candle-lanterns in place across the city, lit from October to March.

SubQuestion No : 48

Q.48 Which inventor designed street lamps that were used to light the streets of Amsterdam?

Ans
✔ 1. Jan van der Heyden
✘ 2. Henri Pussort
✘ 3. Jean Baptiste Colbert
✘ 4. Friedrich Lucae

Question ID : **1501837114**
Status : **Answered**
Chosen Option : **1**

Comprehension:

Read the given passage and answer the questions that follow.

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SubQuestion No : 49

Q.49 How was the concept of street lighting established in London?

Ans
✔ 1. A private company installed the lights and collected the fees.
✘ 2. Individual entrepreneurs provided the service.
✘ 3. The initiative came from the Monarch.
✘ 4. People themselves carried out the lighting project.

Question ID : **1501837115**
Status : **Not Answered**

Chosen Option : --

Comprehension:

Read the given passage and answer the questions that follow.

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When we see early modern street lighting as an international development, the political initiative to establish the lighting becomes especially significant. Despite its presumed benefits, city councils were not eager to incur the new expense of public lighting. Patricians in self-governing cities such as Amsterdam and Hamburg chose to set up and pay for street lighting themselves, but they were the exception. In most cases, territorial rulers established the lighting in their capital cities and forced their subjects to pay for it. In cities including Paris, Turin, Berlin and Vienna, the initiative came from the monarch. In London and Westminster, private street-lighting companies contracted with the city to light specific streets and collect the corresponding fees; in Dublin (1697) and Lübeck (1704), individual entrepreneurs tried to provide the service.

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SubQuestion No : 50

Q.50 "Patricians in self-governing cities such as Amsterdam and Hamburg chose to set up and pay for street lighting themselves, but they were the exception". Here "they were the exception" means:

Ans
✗ 1. everybody followed what they did.

✓ 2. no one else did what they did.

✗ 3. they did as the others did.

4. they set an example for others to follow.

Question ID : **1501837116**
Status : **Not Answered**
Chosen Option : **--**