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(भारत सरकार का उद्यम)  
POWER GRID CORPORATION OF INDIA LIMITED  
(A Government of India Enterprise)

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Test Date	05/12/2023
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Subject	Diploma Trainee Electrical

Section : Electrical Engineering

Q.1 The principle on which a DC generator operates is \_\_\_\_\_.

- Ans  1. Faraday's law of electromagnetic induction  
 2. Kirchoff's voltage law  
 3. Ohm's law  
 4. Ampere's law

Question ID : 630680485713  
Option 1 ID : 6306801897067  
Option 2 ID : 6306801897070  
Option 3 ID : 6306801897068  
Option 4 ID : 6306801897069  
Status : Answered  
Chosen Option : 1

Q.2 Which type of error is caused by the aging of an instrument?

- Ans  1. Gross error  
 2. Absolute error  
 3. Random error  
 4. Systematic error

Question ID : 630680485703  
Option 1 ID : 6306801897027  
Option 2 ID : 6306801897030  
Option 3 ID : 6306801897029  
Option 4 ID : 6306801897028  
Status : Answered  
Chosen Option : 4

Q.3 For maximum power transfer in AC circuits, the load impedance should be \_\_\_\_\_.

- Ans
- 1. Half of source impedance
  - 2. Double of source impedance
  - 3. Conjugate of source impedance
  - 4. Equal to source impedance

Question ID : 630680485693  
Option 1 ID : 6306801896989  
Option 2 ID : 6306801896990  
Option 3 ID : 6306801896988  
Option 4 ID : 6306801896987  
Status : Answered  
Chosen Option : 3

Q.4 Francis turbines are best suited for \_\_\_\_\_.

- Ans
- 1. Very high head and very low flow rates
  - 2. Medium head and medium flow rates
  - 3. Low head and high flow rates
  - 4. High head and low flow rates

Question ID : 630680485746  
Option 1 ID : 6306801897202  
Option 2 ID : 6306801897201  
Option 3 ID : 6306801897199  
Option 4 ID : 6306801897200  
Status : Answered  
Chosen Option : 2

Q.5 Which component in a CSP plant focuses sunlight onto a target?

- Ans
- 1. Photovoltaic cell
  - 2. Inverter
  - 3. Battery storage
  - 4. Mirror or lens

Question ID : 630680485748  
Option 1 ID : 6306801897207  
Option 2 ID : 6306801897208  
Option 3 ID : 6306801897210  
Option 4 ID : 6306801897209  
Status : Answered  
Chosen Option : 4

Q.6 Differential protection of a bus bar is based on the principle of \_\_\_\_\_.

- Ans
- 1. Comparison of incoming and outgoing currents
  - 2. Current grading
  - 3. Voltage grading
  - 4. Time grading

Question ID : 630680485805  
Option 1 ID : 6306801897437  
Option 2 ID : 6306801897436  
Option 3 ID : 6306801897438  
Option 4 ID : 6306801897435  
Status : Answered  
Chosen Option : 1

Q.7 The order of a system is determined by:

- Ans
- 1. Number of input signals
  - 2. Number of output signals
  - 3. Number of feedback loops
  - 4. Highest power of 's' in its transfer function

Question ID : 630680485786  
Option 1 ID : 6306801897361  
Option 2 ID : 6306801897362  
Option 3 ID : 6306801897359  
Option 4 ID : 6306801897360  
Status : Answered  
Chosen Option : 4

Q.8 A purely resistive AC circuit has a power factor of \_\_\_\_\_.

- Ans
- 1. 0.5
  - 2. Infinite
  - 3. 0
  - 4. 1

Question ID : 630680485695  
Option 1 ID : 6306801896996  
Option 2 ID : 6306801896998  
Option 3 ID : 6306801896995  
Option 4 ID : 6306801896997  
Status : Answered  
Chosen Option : 4

Q.9 The dynamometer type wattmeter operates on the principle of \_\_\_\_\_.

- Ans
- 1. Electrostatic induction
  - 2. Mutual induction
  - 3. Electromagnetic induction
  - 4. Self induction

Question ID : 630680485704  
Option 1 ID : 6306801897034  
Option 2 ID : 6306801897031  
Option 3 ID : 6306801897033  
Option 4 ID : 6306801897032  
Status : Answered  
Chosen Option : 3

Q.10 According to Faraday's first law of electromagnetic induction, the induced electromotive force in any closed circuit is equal to:

- Ans
- 1. The total magnetic flux through the circuit
  - 2. The current flowing through the circuit
  - 3. The rate of change of the magnetic flux through the circuit
  - 4. The resistance of the circuit

Question ID : 630680485799  
Option 1 ID : 6306801897412  
Option 2 ID : 6306801897414  
Option 3 ID : 6306801897411  
Option 4 ID : 6306801897413  
Status : Answered  
Chosen Option : 3

Q.11 What is the primary factor affecting the inductance of a transmission line?

- Ans  1. Conductor material  
 2. Temperature of the surrounding environment  
 3. Frequency of the signal  
 4. Length of the transmission line

Question ID : 630680485755  
Option 1 ID : 6306801897236  
Option 2 ID : 6306801897238  
Option 3 ID : 6306801897235  
Option 4 ID : 6306801897237  
Status : Answered  
Chosen Option : 3

Q.12 What does Norton's theorem help determine the equivalent of?

- Ans  1. Current Source  
 2. Resistance  
 3. Capacitance  
 4. Voltage Source

Question ID : 630680485692  
Option 1 ID : 6306801896984  
Option 2 ID : 6306801896985  
Option 3 ID : 6306801896986  
Option 4 ID : 6306801896983  
Status : Answered  
Chosen Option : 1

Q.13 In node analysis, which element is taken as a reference?

- Ans  1. Highest voltage node  
 2. Node with maximum branches  
 3. Node with minimum branches  
 4. Ground or zero voltage node

Question ID : 630680485691  
Option 1 ID : 6306801896979  
Option 2 ID : 6306801896981  
Option 3 ID : 6306801896982  
Option 4 ID : 6306801896980  
Status : Answered  
Chosen Option : 4

Q.14 The VVVF method of speed control stands for:

- Ans  1. Very Voltage Very Frequency  
 2. Voltage Vector and Frequency Factor  
 3. Voltage Variation and Frequency Fixation  
 4. Variable Voltage Variable Frequency

Question ID : 630680485734  
Option 1 ID : 6306801897152  
Option 2 ID : 6306801897154  
Option 3 ID : 6306801897153  
Option 4 ID : 6306801897151  
Status : Answered  
Chosen Option : 4

Q.15 In a two-port network, the open-circuit impedance parameter  $Z_{11}$  represents \_\_\_\_\_.

- Ans
- 1. Transfer impedance from input to output
  - 2. Transfer impedance from output to input
  - 3. Input impedance with output open-circuited
  - 4. Output impedance with input open-circuited

Question ID : 630680485697  
Option 1 ID : 6306801897005  
Option 2 ID : 6306801897006  
Option 3 ID : 6306801897003  
Option 4 ID : 6306801897004  
Status : Answered  
Chosen Option : 3

Q.16 What is the formula for calculating the transmission efficiency of short transmission lines?

- Ans
- 1. Efficiency = (Received power / Transmitted power)  $\times$  100
  - 2. Efficiency = 1 - (Received power / Transmitted power)
  - 3. Efficiency = Transmitted power / Received power
  - 4. Efficiency = (Transmitted power - Received power) / Transmitted power

Question ID : 630680485760  
Option 1 ID : 6306801897255  
Option 2 ID : 6306801897258  
Option 3 ID : 6306801897256  
Option 4 ID : 6306801897257  
Status : Answered  
Chosen Option : 1

Q.17 For an application requiring high starting torque and low starting current, which type of motor is most suitable?

- Ans
- 1. Squirrel cage induction motor
  - 2. Capacitor start motor
  - 3. Slip ring induction motor
  - 4. Synchronous motor

Question ID : 630680485733  
Option 1 ID : 6306801897150  
Option 2 ID : 6306801897149  
Option 3 ID : 6306801897148  
Option 4 ID : 6306801897147  
Status : Answered  
Chosen Option : 3

Q.18 For a sinusoidal waveform, the RMS value is approximately what fraction of the peak value?

- Ans
- 1. 0.5
  - 2. 0.707
  - 3. 1
  - 4. 0.9

Question ID : 630680485774  
Option 1 ID : 6306801897311  
Option 2 ID : 6306801897312  
Option 3 ID : 6306801897314  
Option 4 ID : 6306801897313  
Status : Answered  
Chosen Option : 2

Q.19 The load angle in a synchronous motor indicates the angle between \_\_\_\_\_.

- Ans
- 1. Rotor magnetic field and supply voltage
  - 2. Supply voltage and rotor current
  - 3. Rotor and stator magnetic fields
  - 4. Stator magnetic field and rotor current

Question ID : 630680485736  
Option 1 ID : 6306801897161  
Option 2 ID : 6306801897160  
Option 3 ID : 6306801897159  
Option 4 ID : 6306801897162  
Status : Answered  
Chosen Option : 3

Q.20 In a power system, reactive power is primarily due to \_\_\_\_\_.

- Ans
- 1. Inductive loads
  - 2. Resistive loads
  - 3. Purely active loads
  - 4. Capacitive loads

Question ID : 630680485705  
Option 1 ID : 6306801897037  
Option 2 ID : 6306801897035  
Option 3 ID : 6306801897038  
Option 4 ID : 6306801897036  
Status : Answered  
Chosen Option : 1

Q.21 Which test signal is used to determine the steady-state error of a system?

- Ans
- 1. Sinusoidal Signal
  - 2. Impulse Signal
  - 3. Ramp Signal
  - 4. Step Signal

Question ID : 630680485785  
Option 1 ID : 6306801897358  
Option 2 ID : 6306801897355  
Option 3 ID : 6306801897356  
Option 4 ID : 6306801897357  
Status : Answered  
Chosen Option : 4

Q.22 In a water-tube boiler, water flows inside the \_\_\_\_\_.

- Ans
- 1. Outer shell only
  - 2. Combustion chamber
  - 3. Tubes and hot gases surround them
  - 4. Tubes and cold gases surround them

Question ID : 630680485740  
Option 1 ID : 6306801897178  
Option 2 ID : 6306801897175  
Option 3 ID : 6306801897176  
Option 4 ID : 6306801897177  
Status : Answered  
Chosen Option : 3

Q.23 Which diode is specifically designed to operate in the reverse breakdown region?

- Ans  1. Zener Diode  
 2. Tunnel Diode  
 3. Schottky Diode  
 4. Light Emitting Diode

Question ID : 630680485773  
Option 1 ID : 6306801897307  
Option 2 ID : 6306801897310  
Option 3 ID : 6306801897309  
Option 4 ID : 6306801897308  
Status : Answered  
Chosen Option : 1

Q.24 What is a primary consideration in the design of street lighting?

- Ans  1. Distance between poles  
 2. Height of nearby buildings  
 3. Colour of the light  
 4. Aesthetic appeal

Question ID : 630680485769  
Option 1 ID : 6306801897292  
Option 2 ID : 6306801897294  
Option 3 ID : 6306801897293  
Option 4 ID : 6306801897291  
Status : Answered  
Chosen Option : 1

Q.25 Which type of motor is specifically designed for precise control of angular position?

- Ans  1. Servomotor  
 2. Induction Motor  
 3. Synchronous Motor  
 4. DC Motor

Question ID : 630680485783  
Option 1 ID : 6306801897348  
Option 2 ID : 6306801897347  
Option 3 ID : 6306801897349  
Option 4 ID : 6306801897350  
Status : Answered  
Chosen Option : 1

Q.26 Wind power density is directly proportional to \_\_\_\_\_.

- Ans  1. Wind speed cubed  
 2. Square root of wind speed  
 3. Wind speed  
 4. Wind speed squared

Question ID : 630680485750  
Option 1 ID : 6306801897217  
Option 2 ID : 6306801897218  
Option 3 ID : 6306801897215  
Option 4 ID : 6306801897216  
Status : Answered  
Chosen Option : 2

Q.27 Given a single-phase transformer with a turns ratio of 10:1, a primary voltage of 220V, and a frequency of 50Hz, if the flux in the core is sinusoidal and has a maximum value of 0.02 Wb, what is the peak value of the induced EMF in the secondary winding?

- Ans
- 1. 314V
  - 2. 2200V
  - 3. 628V
  - 4. 440V

Question ID : 630680485722  
Option 1 ID : 6306801897105  
Option 2 ID : 6306801897104  
Option 3 ID : 6306801897106  
Option 4 ID : 6306801897103  
Status : Answered  
Chosen Option : 2

Q.28 What is the purpose of calculating string efficiency in transmission lines?

- Ans
- 1. To determine the capacitance
  - 2. To calculate inductance
  - 3. To optimize conductor material
  - 4. To minimize line losses

Question ID : 630680485763  
Option 1 ID : 6306801897270  
Option 2 ID : 6306801897269  
Option 3 ID : 6306801897267  
Option 4 ID : 6306801897268  
Status : Answered  
Chosen Option : 4

Q.29 Which technique involves combining blocks in series or parallel to simplify a block diagram?

- Ans
- 1. Routh-Hurwitz Criterion
  - 2. Mason's Gain Formula
  - 3. Block Diagram Reduction
  - 4. Nyquist Stability Criterion

Question ID : 630680485782  
Option 1 ID : 6306801897344  
Option 2 ID : 6306801897343  
Option 3 ID : 6306801897345  
Option 4 ID : 6306801897346  
Status : Answered  
Chosen Option : 2

Q.30 Which factor is essential in the design of HT LT overhead lines?

- Ans
- 1. Proximity to birds' nests
  - 2. Distance from the ground
  - 3. Colour of insulators
  - 4. Nearby vegetation type

Question ID : 630680485770  
Option 1 ID : 6306801897295  
Option 2 ID : 6306801897296  
Option 3 ID : 6306801897297  
Option 4 ID : 6306801897298  
Status : Answered  
Chosen Option : 2



Q.31 Which method is commonly used for the measurement of low resistances?

- Ans
- 1. Wheatstone bridge method
  - 2. Ohm's law method
  - 3. Megger method
  - 4. Kelvin's double bridge method

Question ID : 630680485707  
Option 1 ID : 6306801897045  
Option 2 ID : 6306801897043  
Option 3 ID : 6306801897046  
Option 4 ID : 6306801897044  
Status : Answered  
Chosen Option : 4

Q.32 The primary purpose of a current transformer (CT) is to \_\_\_\_\_.

- Ans
- 1. Convert high current to a lower value
  - 2. Convert low current to a higher value
  - 3. Step up voltage
  - 4. Step down voltage

Question ID : 630680485712  
Option 1 ID : 6306801897065  
Option 2 ID : 6306801897066  
Option 3 ID : 6306801897063  
Option 4 ID : 6306801897064  
Status : Answered  
Chosen Option : 1

Q.33 For parallel operation of transformers, which of the following conditions is NOT essential?

- Ans
- 1. Same frequency
  - 2. Same polarity
  - 3. Same kVA rating
  - 4. Same voltage ratio

Question ID : 630680485728  
Option 1 ID : 6306801897129  
Option 2 ID : 6306801897130  
Option 3 ID : 6306801897128  
Option 4 ID : 6306801897127  
Status : Answered  
Chosen Option : 1

Q.34 Plant capacity factor is the ratio of \_\_\_\_\_.

- Ans
- 1. Actual energy produced to the maximum possible energy
  - 2. Maximum possible energy to the actual energy produced
  - 3. Average energy to the actual energy
  - 4. Actual energy to the average energy

Question ID : 630680485754  
Option 1 ID : 6306801897231  
Option 2 ID : 6306801897232  
Option 3 ID : 6306801897234  
Option 4 ID : 6306801897233  
Status : Answered  
Chosen Option : 1

Q.35 Armature reaction in a DC generator primarily affects:

- Ans
- 1. Efficiency
  - 2. Power factor
  - 3. Generated voltage
  - 4. Speed of the generator

Question ID : 630680485715  
Option 1 ID : 6306801897078  
Option 2 ID : 6306801897077  
Option 3 ID : 6306801897075  
Option 4 ID : 6306801897076  
Status : Answered  
Chosen Option : 3

Q.36 The primary purpose of a surge tank in a hydroelectric power plant is to \_\_\_\_\_.

- Ans
- 1. Reduce water hammer effect in the penstock
  - 2. Store water for future use
  - 3. Increase the efficiency of the turbine
  - 4. Generate additional power

Question ID : 630680485747  
Option 1 ID : 6306801897204  
Option 2 ID : 6306801897203  
Option 3 ID : 6306801897205  
Option 4 ID : 6306801897206  
Status : Answered  
Chosen Option : 1

Q.37 The back e.m.f. in a DC motor opposes the:

- Ans
- 1. Supply voltage
  - 2. Armature current
  - 3. Field current
  - 4. Load current

Question ID : 630680485716  
Option 1 ID : 6306801897079  
Option 2 ID : 6306801897080  
Option 3 ID : 6306801897081  
Option 4 ID : 6306801897082  
Status : Answered  
Chosen Option : 1

Q.38 The e.m.f. generated in a DC generator can be increased by:

- Ans
- 1. Increasing the speed of the generator
  - 2. Decreasing the flux per pole
  - 3. Decreasing the number of turns in the coil
  - 4. Using a smaller coil

Question ID : 630680485714  
Option 1 ID : 6306801897073  
Option 2 ID : 6306801897072  
Option 3 ID : 6306801897071  
Option 4 ID : 6306801897074  
Status : Answered  
Chosen Option : 1

Q.39 In mesh analysis, which of the following is true?

- Ans
- 1. Only outer loops are considered.
  - 2. Both inner and outer loops are considered.
  - 3. Only one loop is considered at a time.
  - 4. All loops are considered simultaneously.

Question ID : 630680485690  
Option 1 ID : 6306801896977  
Option 2 ID : 6306801896978  
Option 3 ID : 6306801896975  
Option 4 ID : 6306801896976  
Status : Answered  
Chosen Option : 3

Q.40 When reducing a block diagram, which of the following is NOT a basic configuration?

- Ans
- 1. Feedback Configuration
  - 2. Diagonal Configuration
  - 3. Parallel Configuration
  - 4. Series Configuration

Question ID : 630680485787  
Option 1 ID : 6306801897365  
Option 2 ID : 6306801897366  
Option 3 ID : 6306801897364  
Option 4 ID : 6306801897363  
Status : Answered  
Chosen Option : 2

Q.41 Which component in an elevator control system primarily determines the elevator's direction and speed?

- Ans
- 1. Microcontroller
  - 2. Door sensor
  - 3. Floor button
  - 4. Relay

Question ID : 630680485780  
Option 1 ID : 6306801897337  
Option 2 ID : 6306801897335  
Option 3 ID : 6306801897336  
Option 4 ID : 6306801897338  
Status : Not Answered  
Chosen Option : --

Q.42 The overall efficiency of a steam power plant is defined as the ratio of \_\_\_\_\_.

- Ans
- 1. Electrical energy output to the mechanical energy input
  - 2. Mechanical energy output to the heat energy input
  - 3. Heat energy output to the electrical energy input
  - 4. Electrical energy output to the heat energy input

Question ID : 630680485739  
Option 1 ID : 6306801897172  
Option 2 ID : 6306801897171  
Option 3 ID : 6306801897174  
Option 4 ID : 6306801897173  
Status : Answered  
Chosen Option : 1

Q.43 The rectifier type AC voltmeter is used to measure \_\_\_\_\_.

- Ans
- 1. Peak value
  - 2. Average value
  - 3. Peak-to-peak value
  - 4. RMS value

Question ID : 630680485711  
Option 1 ID : 6306801897059  
Option 2 ID : 6306801897061  
Option 3 ID : 6306801897062  
Option 4 ID : 6306801897060  
Status : Answered  
Chosen Option : 2

Q.44 Which bridge is used for the measurement of inductance?

- Ans
- 1. Wheatstone bridge
  - 2. Kelvin's bridge
  - 3. Maxwell's bridge
  - 4. Anderson's bridge

Question ID : 630680485708  
Option 1 ID : 6306801897049  
Option 2 ID : 6306801897048  
Option 3 ID : 6306801897047  
Option 4 ID : 6306801897050  
Status : Answered  
Chosen Option : 3

Q.45 A real-world voltage source that has some internal resistance is termed as:

- Ans
- 1. Independent voltage source
  - 2. Dependent voltage source
  - 3. Ideal voltage source
  - 4. Non-ideal voltage source

Question ID : 630680485775  
Option 1 ID : 6306801897318  
Option 2 ID : 6306801897317  
Option 3 ID : 6306801897315  
Option 4 ID : 6306801897316  
Status : Answered  
Chosen Option : 4

Q.46 Which type of FET is normally ON when the gate-source voltage is zero?

- Ans
- 1. Depletion-mode MOSFET
  - 2. Enhancement-mode MOSFET
  - 3. MOSFET
  - 4. JFET

Question ID : 630680485772  
Option 1 ID : 6306801897306  
Option 2 ID : 6306801897305  
Option 3 ID : 6306801897304  
Option 4 ID : 6306801897303  
Status : Answered  
Chosen Option : 1

Q.47 What is the result of the inverse Laplace transform of  $F(s) = 1/s$ ?

- Ans
- 1.  $e^{-at}$
  - 2.  $u(t)$
  - 3.  $\cos(at)$
  - 4.  $\sin(at)$

Question ID : 630680485700  
Option 1 ID : 6306801897016  
Option 2 ID : 6306801897015  
Option 3 ID : 6306801897018  
Option 4 ID : 6306801897017  
Status : Answered  
Chosen Option : 2

Q.48 In electric traction, the purpose of sectioning is to \_\_\_\_\_.

- Ans
- 1. Reduce the current flow
  - 2. Improve the efficiency
  - 3. Divide the overhead equipment into sections
  - 4. Increase the voltage

Question ID : 630680485793  
Option 1 ID : 6306801897389  
Option 2 ID : 6306801897390  
Option 3 ID : 6306801897388  
Option 4 ID : 6306801897387  
Status : Answered  
Chosen Option : 3

Q.49 Which principle ensures safety against electric shock during electrical installations?

- Ans
- 1. Wearing a helmet during installations
  - 2. Insulation of live parts
  - 3. Keeping a first aid kit nearby
  - 4. Using a flashlight in dark areas

Question ID : 630680485766  
Option 1 ID : 6306801897280  
Option 2 ID : 6306801897279  
Option 3 ID : 6306801897282  
Option 4 ID : 6306801897281  
Status : Answered  
Chosen Option : 2

Q.50 Which of the following statements best describes the Corona effect in Extra High Voltage (EHV) transmission lines?

- Ans  1. It is the phenomenon where a bluish glow appears along with a hissing noise around the conductors.
2. It is the effect where the transmission line starts to resonate at its natural frequency due to external disturbances.
3. It is the effect where the transmission line heats up excessively due to high current flow.
4. It is the phenomenon where the insulation of the transmission line gets permanently damaged due to high voltage.

Question ID : 630680485788  
Option 1 ID : 6306801897368  
Option 2 ID : 6306801897369  
Option 3 ID : 6306801897370  
Option 4 ID : 6306801897367  
Status : Answered  
Chosen Option : 1

Q.51 The demand factor is the ratio of \_\_\_\_.

- Ans  1. Connected load to maximum demand
2. Average load to connected load
3. Maximum demand to connected load
4. Connected load to average load

Question ID : 630680485752  
Option 1 ID : 6306801897224  
Option 2 ID : 6306801897225  
Option 3 ID : 6306801897223  
Option 4 ID : 6306801897226  
Status : Answered  
Chosen Option : 3

Q.52 Instrument systems can be classified based on \_\_\_\_.

- Ans  1. Weight
2. Colour
3. Function and response
4. Size

Question ID : 630680485701  
Option 1 ID : 6306801897022  
Option 2 ID : 6306801897019  
Option 3 ID : 6306801897021  
Option 4 ID : 6306801897020  
Status : Answered  
Chosen Option : 3

Q.53 When a synchronous motor is on load with constant excitation, an increase in load will

- Ans
- 1. Decrease the power factor
  - 2. Increase the power factor
  - 3. Not affect the power factor
  - 4. Make the motor run asynchronously

Question ID : 630680485737  
Option 1 ID : 6306801897163  
Option 2 ID : 6306801897164  
Option 3 ID : 6306801897165  
Option 4 ID : 6306801897166  
Status : Answered  
Chosen Option : 1

Q.54 In a transmission line, the proximity effect is more pronounced when:

- Ans
- 1. The conductors are closely spaced and the frequency is high.
  - 2. The conductors are closely spaced and the frequency is low.
  - 3. The conductors are spaced far apart and the frequency is high.
  - 4. The conductors are spaced far apart and the frequency is low.

Question ID : 630680485756  
Option 1 ID : 6306801897242  
Option 2 ID : 6306801897240  
Option 3 ID : 6306801897241  
Option 4 ID : 6306801897239  
Status : Answered  
Chosen Option : 1

Q.55 In an AC locomotive, the primary source of power is derived from \_\_\_\_\_.

- Ans
- 1. Diesel engine
  - 2. Ground rails
  - 3. Overhead lines
  - 4. Batteries

Question ID : 630680485795  
Option 1 ID : 6306801897396  
Option 2 ID : 6306801897398  
Option 3 ID : 6306801897397  
Option 4 ID : 6306801897395  
Status : Answered  
Chosen Option : 3

Q.56 In industrial installations, what design consideration is vital for machinery?

- Ans
- 1. Adequate power supply
  - 2. Colour coordination
  - 3. Proximity to windows
  - 4. Distance from the main gate

Question ID : 630680485768  
Option 1 ID : 6306801897289  
Option 2 ID : 6306801897290  
Option 3 ID : 6306801897287  
Option 4 ID : 6306801897288  
Status : Answered  
Chosen Option : 1

Q.57 A differential relay operates when the difference between the currents in its two coils exceeds?

- Ans
- 1. Zero
  - 2. A preset value
  - 3. 100% of rated current
  - 4. 50% of rated current

Question ID : 630680485806  
Option 1 ID : 6306801897442  
Option 2 ID : 6306801897439  
Option 3 ID : 6306801897441  
Option 4 ID : 6306801897440  
Status : Answered  
Chosen Option : 2

Q.58 What is the formula to calculate the receiving end voltage of a distributor?

- Ans
- 1. Receiving End Voltage = Voltage Drop / Sending End Voltage
  - 2. Receiving End Voltage = Sending End Voltage  $\times$  Voltage Drop
  - 3. Receiving End Voltage = Sending End Voltage - Voltage Drop
  - 4. Receiving End Voltage = Sending End Voltage + Voltage Drop

Question ID : 630680485765  
Option 1 ID : 6306801897278  
Option 2 ID : 6306801897277  
Option 3 ID : 6306801897276  
Option 4 ID : 6306801897275  
Status : Answered  
Chosen Option : 3

Q.59 How is the voltage regulation of a short transmission line typically determined?

- Ans
- 1. By analyzing transient conditions
  - 2. By measuring the line length
  - 3. By considering the line's impedance
  - 4. By measuring the conductor diameter

Question ID : 630680485759  
Option 1 ID : 6306801897252  
Option 2 ID : 6306801897251  
Option 3 ID : 6306801897253  
Option 4 ID : 6306801897254  
Status : Answered  
Chosen Option : 1

Q.60 The synchronous motor runs at a speed that is synchronized with \_\_\_\_\_.

- Ans
- 1. Rotor speed
  - 2. Stator speed
  - 3. Supply frequency
  - 4. Load torque

Question ID : 630680485735  
Option 1 ID : 6306801897157  
Option 2 ID : 6306801897158  
Option 3 ID : 6306801897155  
Option 4 ID : 6306801897156  
Status : Answered  
Chosen Option : 1



Q.61 PMMC (Permanent magnet moving coil) instruments are suitable for \_\_\_\_\_.

- Ans
- 1. Neither AC nor DC
  - 2. Both AC and DC
  - 3. AC measurements
  - 4. DC measurements

Question ID : 630680485706  
Option 1 ID : 6306801897042  
Option 2 ID : 6306801897041  
Option 3 ID : 6306801897039  
Option 4 ID : 6306801897040  
Status : Answered  
Chosen Option : 4

Q.62 The equivalent resistance of a transformer is used to calculate:

- Ans
- 1. Copper losses
  - 2. Power factor
  - 3. Core losses
  - 4. Efficiency

Question ID : 630680485725  
Option 1 ID : 6306801897116  
Option 2 ID : 6306801897118  
Option 3 ID : 6306801897115  
Option 4 ID : 6306801897117  
Status : Answered  
Chosen Option : 1

Q.63 When calculating the sag in a transmission line, which factor is considered?

- Ans
- 1. Atmospheric pressure
  - 2. Temperature of the conductor
  - 3. Conductor material
  - 4. Line length

Question ID : 630680485762  
Option 1 ID : 6306801897265  
Option 2 ID : 6306801897266  
Option 3 ID : 6306801897263  
Option 4 ID : 6306801897264  
Status : Answered  
Chosen Option : 4

Q.64 In a parallel RLC circuit operating at a frequency other than its resonant frequency, which of the following statements is true?

- Ans
- 1. The total current is always in phase with the voltage.
  - 2. The total current is either leading or lagging the voltage, depending on the values of R, L, and C.
  - 3. The total current is always lagging the voltage by 90 degrees.
  - 4. The total current is always equal to the sum of the individual currents through R, L, and C.

Question ID : 630680485694  
Option 1 ID : 6306801896991  
Option 2 ID : 6306801896992  
Option 3 ID : 6306801896993  
Option 4 ID : 6306801896994  
Status : Answered  
Chosen Option : 2

Q.65 Which of the following is NOT a category of FACTS controllers used in EHV transmission lines?

- Ans
- 1. Combined series-shunt controllers
  - 2. Diagonal controllers
  - 3. Shunt controllers
  - 4. Series controllers

Question ID : 630680485790  
Option 1 ID : 6306801897378  
Option 2 ID : 6306801897377  
Option 3 ID : 6306801897376  
Option 4 ID : 6306801897375  
Status : Answered  
Chosen Option : 2

Q.66 Which logic gate gives a high output only when both its inputs are low?

- Ans
- 1. NOR gate
  - 2. AND gate
  - 3. NAND gate
  - 4. OR gate

Question ID : 630680485778  
Option 1 ID : 6306801897329  
Option 2 ID : 6306801897327  
Option 3 ID : 6306801897330  
Option 4 ID : 6306801897328  
Status : Answered  
Chosen Option : 1

Q.67 Which organization sets the standards for illumination levels in various spaces?

- Ans
- 1. IESNA
  - 2. IEEE
  - 3. ISO
  - 4. IEC

Question ID : 630680485797  
Option 1 ID : 6306801897404  
Option 2 ID : 6306801897403  
Option 3 ID : 6306801897405  
Option 4 ID : 6306801897406  
Status : Answered  
Chosen Option : 3

Q.68 Diversity factor is always \_\_\_\_\_.

- Ans
- 1. Less than one
  - 2. Equal to one
  - 3. Greater than one
  - 4. Zero

Question ID : 630680485753  
Option 1 ID : 6306801897227  
Option 2 ID : 6306801897228  
Option 3 ID : 6306801897229  
Option 4 ID : 6306801897230  
Status : Answered  
Chosen Option : 3

Q.69 What are the ABCD constants used for in the context of a short transmission line?

- Ans  1. To analyze steady-state conditions  
 2. To calculate capacitance  
 3. To calculate inductance  
 4. To determine the temperature of the line

Question ID : 630680485758  
Option 1 ID : 6306801897249  
Option 2 ID : 6306801897247  
Option 3 ID : 6306801897248  
Option 4 ID : 6306801897250  
Status : Answered  
Chosen Option : 1

Q.70 The Schering bridge is used to measure \_\_\_\_\_.

- Ans  1. Frequency  
 2. Capacitance  
 3. Resistance  
 4. Inductance

Question ID : 630680485709  
Option 1 ID : 6306801897054  
Option 2 ID : 6306801897053  
Option 3 ID : 6306801897051  
Option 4 ID : 6306801897052  
Status : Answered  
Chosen Option : 2

Q.71 परमाणु रिपक्टर में एक श्रृंखला प्रतिक्रिया \_\_\_\_\_ द्वारा कायम रहती है।

- Ans  1. इलेक्ट्रॉन  
 2. धीमा न्यूट्रॉन  
 3. तेज़ न्यूट्रॉन  
 4. प्रोटोन

Question ID : 630680485744  
Option 1 ID : 6306801897194  
Option 2 ID : 6306801897192  
Option 3 ID : 6306801897191  
Option 4 ID : 6306801897193  
Status : Answered  
Chosen Option : 3

Q.72 The primary purpose of a DC motor starter is to:

- Ans  1. Limit the starting current  
 2. Enhance power factor  
 3. Increase the motor speed  
 4. Improve efficiency

Question ID : 630680485718  
Option 1 ID : 6306801897088  
Option 2 ID : 6306801897090  
Option 3 ID : 6306801897087  
Option 4 ID : 6306801897089  
Status : Answered  
Chosen Option : 1

Q.73 The pentagonal OHE centenary construction is primarily used for \_\_\_\_\_.

- Ans  1. Improving the mechanical strength  
 2. Increasing the conductivity  
 3. Enhancing the aesthetic appeal  
 4. Reducing the weight of the structure

Question ID : 630680485794  
Option 1 ID : 6306801897393  
Option 2 ID : 6306801897394  
Option 3 ID : 6306801897392  
Option 4 ID : 6306801897391  
Status : Answered  
Chosen Option : 2

Q.74 Leakage reactance in a transformer is due to:

- Ans  1. Leakage flux  
 2. Mutual flux  
 3. Core losses  
 4. Copper losses

Question ID : 630680485723  
Option 1 ID : 6306801897109  
Option 2 ID : 6306801897107  
Option 3 ID : 6306801897108  
Option 4 ID : 6306801897110  
Status : Answered  
Chosen Option : 1

Q.75 Which equation correctly represents the relationship between self-inductance (L), mutual inductance (M), and the number of turns (N1 and N2) for two closely coupled coils?

- Ans  1.  $M = L / (N1 \times N2)$   
 2.  $L = M \times N1 \times N2$   
 3.  $L = M / (N1 + N2)$   
 4.  $M = L \times \sqrt{(N1 \times N2)}$

Question ID : 630680485798  
Option 1 ID : 6306801897408  
Option 2 ID : 6306801897407  
Option 3 ID : 6306801897409  
Option 4 ID : 6306801897410  
Status : Answered  
Chosen Option : 4

Q.76 The form factor of an AC waveform is defined as the ratio of \_\_\_\_\_.

- Ans  1. RMS value to the peak value  
 2. Average value to the RMS value  
 3. RMS value to the average value  
 4. Peak value to the RMS value

Question ID : 630680485801  
Option 1 ID : 6306801897422  
Option 2 ID : 6306801897420  
Option 3 ID : 6306801897419  
Option 4 ID : 6306801897421  
Status : Answered  
Chosen Option : 3

Q.77 Which transformation is used to simplify a three-resistor network?

- A) Star to Delta
- B) Delta to Star

- Ans
- 1. Only B
  - 2. Neither A nor B
  - 3. Both A and B
  - 4. Only A

Question ID : 630680485689  
Option 1 ID : 6306801896972  
Option 2 ID : 6306801896974  
Option 3 ID : 6306801896973  
Option 4 ID : 6306801896971  
Status : Answered  
Chosen Option : 3

Q.78 In the four quadrant operation of a 3-phase induction motor, the fourth quadrant represents:

- Ans
- 1. Generating with reverse torque
  - 2. Motoring with forward torque
  - 3. Generating with forward torque
  - 4. Motoring with reverse torque

Question ID : 630680485732  
Option 1 ID : 6306801897146  
Option 2 ID : 6306801897145  
Option 3 ID : 6306801897144  
Option 4 ID : 6306801897143  
Status : Answered  
Chosen Option : 1

Q.79 In a DC motor, torque is directly proportional to:

- Ans
- 1. Armature current
  - 2. Motor speed
  - 3. Supply voltage
  - 4. Back e.m.f.

Question ID : 630680485721  
Option 1 ID : 6306801897100  
Option 2 ID : 6306801897102  
Option 3 ID : 6306801897101  
Option 4 ID : 6306801897099  
Status : Answered  
Chosen Option : 1

Q.80 When selecting an MCCB (Molded Case Circuit Breaker) for motors, which factor is crucial?

- Ans
- 1. Brand reputation
  - 2. Colour of MCCB
  - 3. Motor weight
  - 4. Motor starting current

Question ID : 630680485803  
Option 1 ID : 6306801897428  
Option 2 ID : 6306801897427  
Option 3 ID : 6306801897430  
Option 4 ID : 6306801897429  
Status : Answered  
Chosen Option : 4

Q.81 The primary advantage of using SF6 gas in circuit breakers is its \_\_\_\_\_.

- Ans  1. High dielectric strength  
 2. Non-toxicity  
 3. Low cost  
 4. Non-flammability

Question ID : 630680485802  
Option 1 ID : 6306801897424  
Option 2 ID : 6306801897426  
Option 3 ID : 6306801897423  
Option 4 ID : 6306801897425  
Status : Answered  
Chosen Option : 1

Q.82 All day efficiency of a transformer is the ratio of:

- Ans  1. Average output to average input for 24 hours  
 2. Maximum output to maximum input for 24 hours  
 3. Minimum output to minimum input for 24 hours  
 4. Total output to total input for 24 hours

Question ID : 630680485726  
Option 1 ID : 6306801897120  
Option 2 ID : 6306801897121  
Option 3 ID : 6306801897122  
Option 4 ID : 6306801897119  
Status : Answered  
Chosen Option : 4

Q.83 The voltage transformation ratio of a transformer is the ratio of:

- Ans  1. Primary to secondary voltage  
 2. Secondary to primary resistance  
 3. Primary to secondary resistance  
 4. Secondary to primary voltage

Question ID : 630680485724  
Option 1 ID : 6306801897113  
Option 2 ID : 6306801897114  
Option 3 ID : 6306801897111  
Option 4 ID : 6306801897112  
Status : Answered  
Chosen Option : 4

Q.84 A brushless DC motor operates primarily on the principle of:

- Ans  1. Electronic commutation  
 2. Commutation by brushes  
 3. Synchronous operation  
 4. Variable reluctance

Question ID : 630680485720  
Option 1 ID : 6306801897096  
Option 2 ID : 6306801897095  
Option 3 ID : 6306801897098  
Option 4 ID : 6306801897097  
Status : Answered  
Chosen Option : 1

Q.85 In a two-port network, the short-circuit admittance parameter  $Y_{21}$  represents \_\_\_\_.

- Ans
- 1. Output admittance with input short-circuited
  - 2. Transfer admittance from input to output
  - 3. Input admittance with output short-circuited
  - 4. Transfer admittance from output to input

Question ID : 630680485698  
Option 1 ID : 6306801897010  
Option 2 ID : 6306801897008  
Option 3 ID : 6306801897009  
Option 4 ID : 6306801897007  
Status : Answered  
Chosen Option : 4

Q.86 In a homo-polar transmission line, which of the following is a significant challenge that needs to be addressed?

- Ans
- 1. Balancing the three phases
  - 2. Mitigating the direct current magnetic fields
  - 3. Reduction of skin effect
  - 4. Increasing the line capacitance

Question ID : 630680485789  
Option 1 ID : 6306801897372  
Option 2 ID : 6306801897373  
Option 3 ID : 6306801897371  
Option 4 ID : 6306801897374  
Status : Answered  
Chosen Option : 2

Q.87 Wound rotor induction generators are primarily used in wind turbines because they \_\_\_\_.

- Ans
- 1. Allow variable speed operation
  - 2. Increase the wind turbine size
  - 3. Make the turbine noiseless
  - 4. Reduce the overall cost

Question ID : 630680485751  
Option 1 ID : 6306801897220  
Option 2 ID : 6306801897221  
Option 3 ID : 6306801897222  
Option 4 ID : 6306801897219  
Status : Answered  
Chosen Option : 1

Q.88 Which characteristic of an instrument defines its behaviour during rapid changes in the measurand?

- Ans
- 1. Precision
  - 2. Dynamic
  - 3. Accuracy
  - 4. Static

Question ID : 630680485702  
Option 1 ID : 6306801897026  
Option 2 ID : 6306801897024  
Option 3 ID : 6306801897025  
Option 4 ID : 6306801897023  
Status : Answered  
Chosen Option : 2

Q.89 In a control system, if all poles lie on the left side of the s-plane, the system is:

- Ans
- 1. Unstable
  - 2. Oscillatory
  - 3. Stable
  - 4. Marginally stable

Question ID : 630680485781  
Option 1 ID : 6306801897339  
Option 2 ID : 6306801897342  
Option 3 ID : 6306801897341  
Option 4 ID : 6306801897340  
Status : Answered  
Chosen Option : 3

Q.90 In transmission lines, sag is least affected by:

- Ans
- 1. Colour of the conductor
  - 2. Weight of the conductor
  - 3. Ice loading
  - 4. Span length

Question ID : 630680485792  
Option 1 ID : 6306801897386  
Option 2 ID : 6306801897383  
Option 3 ID : 6306801897385  
Option 4 ID : 6306801897384  
Status : Answered  
Chosen Option : 1

Q.91 In circuit analysis, converting a voltage source in series with a resistance to a current source in parallel with the same resistance is known as \_\_\_\_\_.

- Ans
- 1. Parallel to series resistance transformation
  - 2. Voltage to current source transformation
  - 3. Current to voltage source transformation
  - 4. Resistor to inductor transformation

Question ID : 630680485688  
Option 1 ID : 6306801896969  
Option 2 ID : 6306801896967  
Option 3 ID : 6306801896968  
Option 4 ID : 6306801896970  
Status : Answered  
Chosen Option : 2

Q.92 The primary function of an ELCB (Earth leakage circuit breaker) is to detect \_\_\_\_\_.

- Ans
- 1. Phase imbalance
  - 2. Overcurrent
  - 3. Earth leakage current
  - 4. Overvoltage

Question ID : 630680485804  
Option 1 ID : 6306801897434  
Option 2 ID : 6306801897431  
Option 3 ID : 6306801897433  
Option 4 ID : 6306801897432  
Status : Answered  
Chosen Option : 3



Q.93 In a three-phase system, RYB sequence is also known as \_\_\_\_\_.

- Ans
- 1. Both positive and negative sequence.
  - 2. Negative sequence
  - 3. Positive sequence
  - 4. Zero sequence

Question ID : 630680485696  
Option 1 ID : 6306801897002  
Option 2 ID : 6306801897000  
Option 3 ID : 6306801896999  
Option 4 ID : 6306801897001  
Status : Answered  
Chosen Option : 3

Q.94 In the four quadrant operation of a three-phase induction motor, consider the following scenarios:

- I. Motor operates in the forward direction with motoring torque.
- II. Motor operates in the reverse direction with regenerative braking.
- III. Motor operates in the forward direction with regenerative braking.
- IV. Motor operates in the reverse direction with motoring torque.

Which of the following correctly represents the third quadrant of operation?

- Ans
- 1. III
  - 2. II
  - 3. I
  - 4. IV

Question ID : 630680485731  
Option 1 ID : 6306801897141  
Option 2 ID : 6306801897140  
Option 3 ID : 6306801897139  
Option 4 ID : 6306801897142  
Status : Answered  
Chosen Option : 2

Q.95 The slip of an induction motor is 0 when the motor is:

- Ans
- 1. Overloaded
  - 2. At standstill
  - 3. Running at synchronous speed
  - 4. Running at maximum torque

Question ID : 630680485729  
Option 1 ID : 6306801897134  
Option 2 ID : 6306801897131  
Option 3 ID : 6306801897132  
Option 4 ID : 6306801897133  
Status : Answered  
Chosen Option : 3

Q.96 Which Boolean operation is represented by the multiplication of two binary variables?

- Ans  1. AND operation  
 2. XOR operation  
 3. OR operation  
 4. NOT operation

Question ID : 630680485779  
Option 1 ID : 6306801897332  
Option 2 ID : 6306801897334  
Option 3 ID : 6306801897331  
Option 4 ID : 6306801897333  
Status : Answered  
Chosen Option : 1

Q.97 Which of the following describes the primary difference between a JFET (Junction Field-Effect Transistor) and a MOSFET (Metal-Oxide-Semiconductor Field-Effect Transistor)?

- Ans  1. MOSFETs are unipolar devices while JFETs are bipolar  
 2. Gate is voltage-controlled and current flows through it in a MOSFET  
 3. Gate is voltage-controlled and no current flows through it in a MOSFET  
 4. JFETs use a PN-junction for gating, while MOSFETs use a metal-semiconductor junction

Question ID : 630680485771  
Option 1 ID : 6306801897301  
Option 2 ID : 6306801897300  
Option 3 ID : 6306801897299  
Option 4 ID : 6306801897302  
Status : Answered  
Chosen Option : 4

Q.98 The time required for half of the radioactive atoms in a sample to decay is called \_\_\_\_\_.

- Ans  1. Half-life  
 2. Radioactive decay  
 3. Full-life  
 4. Decay constant

Question ID : 630680485742  
Option 1 ID : 6306801897185  
Option 2 ID : 6306801897184  
Option 3 ID : 6306801897186  
Option 4 ID : 6306801897183  
Status : Answered  
Chosen Option : 1

Q.99 In a Boiling Water Reactor (BWR), the coolant used is \_\_\_\_\_.

- Ans  1. Light water  
 2. Liquid sodium  
 3. Heavy water  
 4. Carbon dioxide

Question ID : 630680485743  
Option 1 ID : 6306801897190  
Option 2 ID : 6306801897188  
Option 3 ID : 6306801897187  
Option 4 ID : 6306801897189  
Status : Answered  
Chosen Option : 3

Q.100 Why is transposition of conductors necessary in transmission lines?

- Ans
- 1. To improve the efficiency of the line
  - 2. To increase line losses
  - 3. To reduce the inductance of the line
  - 4. To increase the capacitance of the line

Question ID : 630680485757  
Option 1 ID : 6306801897244  
Option 2 ID : 6306801897243  
Option 3 ID : 6306801897245  
Option 4 ID : 6306801897246  
Status : Answered  
Chosen Option : 3

Q.101 जैव-रासायनिक बिजली संयंत्र ऊर्जा उत्पादन के लिए मुख्य रूप से किस प्रक्रिया का उपयोग करते हैं?

- Ans
- 1. दहन
  - 2. निस्पंदन
  - 3. आसवन
  - 4. किण्वन

Question ID : 630680485749  
Option 1 ID : 6306801897211  
Option 2 ID : 6306801897214  
Option 3 ID : 6306801897213  
Option 4 ID : 6306801897212  
Status : Answered  
Chosen Option : 4

Q.102 What is a distinct advantage of the Ring distribution system over radial distribution?

- Ans
- 1. Increased reliability due to multiple paths for power flow
  - 2. Reduced material usage
  - 3. Simpler design and construction
  - 4. Lower maintenance costs

Question ID : 630680485764  
Option 1 ID : 6306801897271  
Option 2 ID : 6306801897273  
Option 3 ID : 6306801897272  
Option 4 ID : 6306801897274  
Status : Answered  
Chosen Option : 1

Q.103 In a Star (Y) connected system, if phase voltage is  $V_p$  and line voltage is  $V_l$ , which of the following relationships is correct?

- Ans
- 1.  $V_p = V_l / \sqrt{3}$
  - 2.  $V_p = V_l \times \sqrt{3}$
  - 3.  $V_p = 3 \times V_l$
  - 4.  $V_p = V_l$

Question ID : 630680485800  
Option 1 ID : 6306801897415  
Option 2 ID : 6306801897416  
Option 3 ID : 6306801897418  
Option 4 ID : 6306801897417  
Status : Answered  
Chosen Option : 1

Q.104 Which of the following is NOT a typical loss in a synchronous motor?

- Ans  1. Capacitive loss  
 2. Iron loss  
 3. Friction loss  
 4. Copper loss

Question ID : 630680485738  
Option 1 ID : 6306801897170  
Option 2 ID : 6306801897168  
Option 3 ID : 6306801897169  
Option 4 ID : 6306801897167  
Status : Answered  
Chosen Option : 1

Q.105 In an overcurrent relay, the time of operation is inversely proportional to \_\_\_\_\_.

- Ans  1. The frequency  
 2. The cube of the current  
 3. The square of the current  
 4. The voltage

Question ID : 630680485807  
Option 1 ID : 6306801897446  
Option 2 ID : 6306801897444  
Option 3 ID : 6306801897443  
Option 4 ID : 6306801897445  
Status : Answered  
Chosen Option : 3

Q.106 The primary purpose of an electrostatic precipitator in a power plant is to \_\_\_\_\_.

- Ans  1. Remove ash particles from the exhaust  
 2. Increase combustion efficiency  
 3. Generate electricity  
 4. Reduce fuel consumption

Question ID : 630680485741  
Option 1 ID : 6306801897181  
Option 2 ID : 6306801897182  
Option 3 ID : 6306801897179  
Option 4 ID : 6306801897180  
Status : Answered  
Chosen Option : 1

Q.107 Which of the following is the correct formula of string efficiency?

- Ans  1. String Efficiency = voltage across the whole string / (number of discs in string × the voltage across the disc farthest to the conductor)  
 2. String Efficiency = voltage across the whole string / (number of discs in string × the voltage across the disc nearest to the conductor)  
 3. String Efficiency = (voltage across the whole string × number of discs in string) / the voltage across the disc farthest to the conductor  
 4. String Efficiency = (voltage across the whole string × number of discs in string) / the voltage across the disc nearest to the conductor

Question ID : 630680485791  
Option 1 ID : 6306801897380  
Option 2 ID : 6306801897379  
Option 3 ID : 6306801897382  
Option 4 ID : 6306801897381  
Status : Answered  
Chosen Option : 2

Q.108 Electronic energy meters provide an advantage of \_\_\_\_\_.

- Ans
- 1. High power consumption
  - 2. Having moving parts
  - 3. Being bulky
  - 4. High accuracy and reliability

Question ID : 630680485710  
Option 1 ID : 6306801897057  
Option 2 ID : 6306801897056  
Option 3 ID : 6306801897055  
Option 4 ID : 6306801897058  
Status : Answered  
Chosen Option : 4

Q.109 The torque in a three-phase induction motor is maximum at a slip of:

- Ans
- 1. Between 0 and 1
  - 2. Greater than 1
  - 3. 0
  - 4. 1

Question ID : 630680485730  
Option 1 ID : 6306801897137  
Option 2 ID : 6306801897138  
Option 3 ID : 6306801897135  
Option 4 ID : 6306801897136  
Status : Answered  
Chosen Option : 4

Q.110 In the armature control method, the speed of the DC motor:

- Ans
- 1. Remains constant with increased resistance
  - 2. Increases with increased resistance
  - 3. Decreases with increased resistance
  - 4. Becomes zero with increased resistance

Question ID : 630680485719  
Option 1 ID : 6306801897093  
Option 2 ID : 6306801897091  
Option 3 ID : 6306801897092  
Option 4 ID : 6306801897094  
Status : Answered  
Chosen Option : 3

Q.111 In which closed-loop configuration does an operational amplifier provide phase inversion?

- Ans
- 1. Differential amplifier
  - 2. Inverting amplifier
  - 3. Non-inverting amplifier
  - 4. Voltage follower

Question ID : 630680485777  
Option 1 ID : 6306801897326  
Option 2 ID : 6306801897323  
Option 3 ID : 6306801897324  
Option 4 ID : 6306801897325  
Status : Answered  
Chosen Option : 2

Q.112 What is a crucial factor to consider when preparing a detailed electrical estimate?

- Ans
- 1. Office location
  - 2. Colour of wires
  - 3. Brand of equipment
  - 4. Load requirements

Question ID : 63068048576  
Option 1 ID : 6306801897286  
Option 2 ID : 6306801897283  
Option 3 ID : 6306801897284  
Option 4 ID : 6306801897285  
Status : Answered  
Chosen Option : 4

Q.113 Which of the following is NOT a characteristic of an ideal operational amplifier?

- Ans
- 1. Finite open-loop gain
  - 2. Zero output impedance
  - 3. Infinite input impedance
  - 4. Infinite bandwidth

Question ID : 630680485776  
Option 1 ID : 6306801897322  
Option 2 ID : 6306801897320  
Option 3 ID : 6306801897319  
Option 4 ID : 6306801897321  
Status : Answered  
Chosen Option : 1

Q.114 The process by which water vapor in the air is changed into liquid water is called \_\_\_\_\_.

- Ans
- 1. Infiltration
  - 2. Condensation
  - 3. Evaporation
  - 4. Precipitation

Question ID : 630680485745  
Option 1 ID : 6306801897198  
Option 2 ID : 6306801897196  
Option 3 ID : 6306801897195  
Option 4 ID : 6306801897197  
Status : Answered  
Chosen Option : 2

Q.115 In a DC motor, the supply voltage is equal to:

- Ans
- 1. Back e.m.f. plus armature drop
  - 2. Armature drop divided by back e.m.f.
  - 3. Armature drop minus back e.m.f.
  - 4. Back e.m.f. minus armature drop

Question ID : 630680485717  
Option 1 ID : 6306801897084  
Option 2 ID : 6306801897086  
Option 3 ID : 6306801897085  
Option 4 ID : 6306801897083  
Status : Answered  
Chosen Option : 1

Q.116 The illumination level in a room is determined by the ratio of \_\_\_\_\_.

- Ans
- 1. Luminous intensity to the distance
  - 2. Luminous flux to the area
  - 3. Luminous intensity to the area
  - 4. Luminous flux to the volume

Question ID : 630680485796  
Option 1 ID : 6306801897400  
Option 2 ID : 6306801897399  
Option 3 ID : 6306801897402  
Option 4 ID : 6306801897401  
Status : Answered  
Chosen Option : 1

Q.117 Scott connection in transformers is primarily used for:

- Ans
- 1. Voltage regulation
  - 2. Harmonic reduction
  - 3. Power factor correction
  - 4. Three-phase to two-phase conversion

Question ID : 630680485727  
Option 1 ID : 6306801897125  
Option 2 ID : 6306801897126  
Option 3 ID : 6306801897123  
Option 4 ID : 6306801897124  
Status : Answered  
Chosen Option : 4

Q.118 In a medium transmission line, if the received power is 800 kW and the transmitted power is 850 kW, what is the transmission efficiency?

- Ans
- 1. 94.59%
  - 2. 94.12%
  - 3. 5.88%
  - 4. 55.29%

Question ID : 630680485761  
Option 1 ID : 6306801897260  
Option 2 ID : 6306801897259  
Option 3 ID : 6306801897261  
Option 4 ID : 6306801897262  
Status : Answered  
Chosen Option : 2

Q.119 Which property of Laplace Transform is used to solve differential equations?

- Ans
- 1. Initial Value
  - 2. Time Shifting
  - 3. Linearity
  - 4. Frequency Shifting

Question ID : 630680485699  
Option 1 ID : 6306801897014  
Option 2 ID : 6306801897012  
Option 3 ID : 6306801897011  
Option 4 ID : 6306801897013  
Status : Answered  
Chosen Option : 4

Q.120 Which type of position encoder uses light and sensors to determine position?

- Ans  1. Optical Encoder  
 2. Capacitive Encoder  
 3. Magnetic Encoder  
 4. Resistive Encoder

Question ID : 630680485784  
Option 1 ID : 6306801897353  
Option 2 ID : 6306801897351  
Option 3 ID : 6306801897354  
Option 4 ID : 6306801897352  
Status : Not Answered  
Chosen Option : --

Section : General English

Q.1 Choose the word that means the same as the given word.

Abdicate

- Ans  1. Cede  
 2. Confiscate  
 3. Annulment  
 4. Rescindment

Question ID : 630680485809  
Option 1 ID : 6306801897451  
Option 2 ID : 6306801897452  
Option 3 ID : 6306801897453  
Option 4 ID : 6306801897454  
Status : Not Answered  
Chosen Option : --

Q.2 Select the most appropriate option for the given blank.

A king was made to kneel at the feet of \_\_\_\_\_ brahmin.

- Ans  1. an  
 2. No article  
 3. a  
 4. the

Question ID : 630680485813  
Option 1 ID : 6306801897469  
Option 2 ID : 6306801897470  
Option 3 ID : 6306801897468  
Option 4 ID : 6306801897467  
Status : Not Answered  
Chosen Option : --



Q.3 Choose the word that means the same as the given word.

Abbreviate

- Ans  1. Sycophant  
 2. Dilute  
 3. Dilate  
 4. Curtail

Question ID : 630680485808  
Option 1 ID : 6306801897448  
Option 2 ID : 6306801897450  
Option 3 ID : 6306801897447  
Option 4 ID : 6306801897449  
Status : Not Answered  
Chosen Option : --

Q.4 Select the most appropriate option for the given blank.

Once \_\_\_\_ boy came running in from play and asked, Mother, what is milk?

- Ans  1. an  
 2. a  
 3. No article  
 4. the

Question ID : 630680485812  
Option 1 ID : 6306801897465  
Option 2 ID : 6306801897464  
Option 3 ID : 6306801897466  
Option 4 ID : 6306801897463  
Status : Answered  
Chosen Option : 2

Q.5 Select the most appropriate preposition for the given blank.

Being wrong opens us \_\_\_\_ the possibility of change.

- Ans  1. with  
 2. of to  
 3. into  
 4. up to

Question ID : 630680485810  
Option 1 ID : 6306801897455  
Option 2 ID : 6306801897457  
Option 3 ID : 6306801897456  
Option 4 ID : 6306801897458  
Status : Not Answered  
Chosen Option : --

Q.6 The question below consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.

- P. This results in higher income, consumption and associated levels of emissions.  
Q. The World Bank estimates that 80% of global GDP is produced in urban areas.  
R. It is certain that a considerable share of the global carbon budget will be used up for building new infrastructure, particularly in fast-growing cities.  
S. Further emissions take place when cities expand and land use changes – turning vegetation into city grounds.

Ans  1. QPRS

2. RSQP

3. PQSR

4. QSRP

Question ID : 630680485814

Option 1 ID : 6306801897472

Option 2 ID : 6306801897473

Option 3 ID : 6306801897471

Option 4 ID : 6306801897474

Status : Answered

Chosen Option : 4

Q.7 Select the most appropriate preposition for the given blank.

If she doesn't rely \_\_\_\_\_ her driving skills as a source of her self-worth, it won't affect her self-esteem.

Ans  1. over

2. in

3. on

4. at

Question ID : 630680485811

Option 1 ID : 6306801897462

Option 2 ID : 6306801897460

Option 3 ID : 6306801897461

Option 4 ID : 6306801897459

Status : Not Answered

Chosen Option : --

**Comprehension:**

Read the following passage and answer the questions given below.

Honey is a wonderful creation. It is deemed a top health food across the globe. Honey is among the most popular and widely used sweeteners, with enormous health benefits. It is used by several cultures around the world as a base for many traditional medicines, especially in Ayurveda. The health benefits and advantages of honey have been valued for ages. Honey is known as an excellent source of natural energy as the natural, unprocessed sugar present in it enters the bloodstream directly, which in turn can give a quick boost of energy. According to a famous author and nutritionist, honey burns body fat even while you are sleeping. It is considered to be the best food for losing weight. Doctors recommend having a spoonful of honey before going to bed. You can also consume a little honey with warm water on an empty stomach early in the morning. Having it first thing in the morning helps increase the metabolism, which in turn helps reduce weight faster. Honey is also good for improving your overall health.

**SubQuestion No : 8**

**Q.8 Which word means the same as the word 'enormous' used in the passage?**

- Ans
- 1. Diabolical
  - 2. Whimsical
  - 3. Frugal
  - 4. Colossal

Question ID : 630680485818  
Option 1 ID : 6306801897485  
Option 2 ID : 6306801897486  
Option 3 ID : 6306801897483  
Option 4 ID : 6306801897484  
Status : Not Answered  
Chosen Option : --

**Comprehension:**

Read the following passage and answer the questions given below.

Honey is a wonderful creation. It is deemed a top health food across the globe. Honey is among the most popular and widely used sweeteners, with enormous health benefits. It is used by several cultures around the world as a base for many traditional medicines, especially in Ayurveda. The health benefits and advantages of honey have been valued for ages. Honey is known as an excellent source of natural energy as the natural, unprocessed sugar present in it enters the bloodstream directly, which in turn can give a quick boost of energy. According to a famous author and nutritionist, honey burns body fat even while you are sleeping. It is considered to be the best food for losing weight. Doctors recommend having a spoonful of honey before going to bed. You can also consume a little honey with warm water on an empty stomach early in the morning. Having it first thing in the morning helps increase the metabolism, which in turn helps reduce weight faster. Honey is also good for improving your overall health.

**SubQuestion No : 9**

**Q.9 Choose the most suitable title for the given passage.**

- Ans
- 1. Honey: A wonderful creation
  - 2. Natural or Synthetic
  - 3. Sweets and benefits
  - 4. Ayurvedic Honey

Question ID : 630680485816  
Option 1 ID : 6306801897478  
Option 2 ID : 6306801897475  
Option 3 ID : 6306801897477  
Option 4 ID : 6306801897476  
Status : Answered  
Chosen Option : 1

**Comprehension:**

Read the following passage and answer the questions given below.

Honey is a wonderful creation. It is deemed a top health food across the globe. Honey is among the most popular and widely used sweeteners, with enormous health benefits. It is used by several cultures around the world as a base for many traditional medicines, especially in Ayurveda. The health benefits and advantages of honey have been valued for ages. Honey is known as an excellent source of natural energy as the natural, unprocessed sugar present in it enters the bloodstream directly, which in turn can give a quick boost of energy. According to a famous author and nutritionist, honey burns body fat even while you are sleeping. It is considered to be the best food for losing weight. Doctors recommend having a spoonful of honey before going to bed. You can also consume a little honey with warm water on an empty stomach early in the morning. Having it first thing in the morning helps increase the metabolism, which in turn helps reduce weight faster. Honey is also good for improving your overall health.

**SubQuestion No : 10**

**Q.10** According to the given passage, which of the following statements is NOT correct?

- Ans  1. Honey can help in losing weight.
2. Honey's advantages are not valued by people.
3. Honey can provide a quick boost of energy.
4. Honey is used by several cultures around the world.

Question ID : 630680485817  
Option 1 ID : 6306801897479  
Option 2 ID : 6306801897481  
Option 3 ID : 6306801897482  
Option 4 ID : 6306801897480  
Status : Answered  
Chosen Option : 2

## Section : Reasoning

**Q.1** In the following question, select the related letters from the given alternatives.

QRLJ : PPIF :: FCDY : ?

- Ans  1. VBYW
2. NUVX
3. EAAU
4. XPFF

Question ID : 630680485825  
Option 1 ID : 6306801897513  
Option 2 ID : 6306801897511  
Option 3 ID : 6306801897512  
Option 4 ID : 6306801897514  
Status : Answered  
Chosen Option : 3

Q.2 नीचे दिए गए प्रश्न में कुछ कथन और उनके बाद उन कथनों पर आधारित कुछ निष्कर्ष दिए गए हैं। दिए गए कथनों को सही माने, चाहे उनमें सामान्य ज्ञात तथ्यों से भिन्नता हो। सभी निष्कर्ष पढ़ें और फिर निर्धारित करें कि दिए गए कौन से निष्कर्ष, दिए गए कथनों के आधार पर युक्तिसंगत हैं।

कथन:

- I. सभी दर्जी चिकित्सक हैं।
- II. कोई भी चिकित्सक होशियार नहीं है।

निष्कर्ष:

- I. सभी दर्जी होशियार हैं।
- II. कुछ दर्जी चिकित्सक हैं।

Ans

1. केवल निष्कर्ष I अनुसरण करता है
2. दोनों निष्कर्ष I तथा II अनुसरण करते हैं
3. केवल निष्कर्ष II अनुसरण करता है
4. कोई भी निष्कर्ष अनुसरण नहीं करता है

Question ID : 630680485824  
Option 1 ID : 6306801897507  
Option 2 ID : 6306801897509  
Option 3 ID : 6306801897508  
Option 4 ID : 6306801897510  
Status : Answered  
Chosen Option : 3

Q.3 In the following question, select the missing number from the given series.

30, 61, 123, 247, 495, ?

Ans

1. 1017
2. 993
3. 991
4. 997

Question ID : 630680485828  
Option 1 ID : 6306801897526  
Option 2 ID : 6306801897524  
Option 3 ID : 6306801897523  
Option 4 ID : 6306801897525  
Status : Answered  
Chosen Option : 3

Q.4 अक्षरों से बनी नीचे दी गई स्ट्रिंग पर विचार करें। यदि बाएं छोर से पहले सात अक्षरों को उलट दिया जाए। फिर नवगठित स्ट्रिंग में दायें छोर से 22वाँ अक्षर कौन सा है?

R I R Y R W W I W Y  
W W I I R Y I W I R  
Y I I Y W

- Ans
- 1. W
  - 2. Y
  - 3. R
  - 4. I

Question ID : 630680485821  
Option 1 ID : 6306801897498  
Option 2 ID : 6306801897497  
Option 3 ID : 6306801897495  
Option 4 ID : 6306801897496  
Status : Answered  
Chosen Option : 2

Q.5 35 छात्रों की एक कक्षा में, ज़ोया नीचे से 7वें स्थान पर है जबकि सोनिया ऊपर से 9वें स्थान पर है। शाह को दोनों के बीच में रखा गया है। शाह से ज़ोया का स्थान क्या है?

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

Question ID : 630680485820  
Option 1 ID : 6306801897494  
Option 2 ID : 6306801897493  
Option 3 ID : 6306801897491  
Option 4 ID : 6306801897492  
Status : Answered  
Chosen Option : 1

Q.6 नीचे दी गई तालिका 5 वर्षों में एक कंपनी के कार्य के दिनों की संख्या को दर्शाती है।

वर्ष	कार्य के दिन
A	50
B	150
C	75
D	25
E	100

वर्ष D तथा E में कार्य के दिनों की संख्या का औसत क्या है?

- Ans
- 1. 45.5
  - 2. 53.5
  - 3. 62.5
  - 4. 72.5

Question ID : 630680485827  
Option 1 ID : 6306801897522  
Option 2 ID : 6306801897520  
Option 3 ID : 6306801897519  
Option 4 ID : 6306801897521  
Status : Answered  
Chosen Option : 3

Q.7 एक विशिष्ट कोड भाषा में, 'DRIVING' को 'IPKXKTF' लिखा जाता है। इस कोड भाषा में 'FACTORY' का कोड क्या है?

- Ans
- 1. ATQVECH
  - 2. ATQVEDI
  - 3. HCEVQTA
  - 4. ATQWECH

Question ID : 630680485823  
Option 1 ID : 6306801897504  
Option 2 ID : 6306801897505  
Option 3 ID : 6306801897506  
Option 4 ID : 6306801897503  
Status : Answered  
Chosen Option : 1

Q.8 एक अनुक्रम दिया गया है, जिसमें से एक पद लुप्त है। दिए गए विकल्पों में से वह सही विकल्प चुनिए, जो अनुक्रम को पूरा करे।

MNRM, OPUP, QRXS, STAV, ?

- Ans
- 1. UYDO
  - 2. VMNO
  - 3. UMNO
  - 4. UVDY

Question ID : 630680485822  
Option 1 ID : 6306801897501  
Option 2 ID : 6306801897499  
Option 3 ID : 6306801897502  
Option 4 ID : 6306801897500  
Status : Answered  
Chosen Option : 4

Q.9 निम्नलिखित प्रत्येक समस्या में एक प्रश्न और दो कथन (I) तथा (II) हैं।

X का मान क्या है?

I.  $x - 5 = 12$

II.  $x^2 = 16$

Ans  1.

यदि प्रश्न का उत्तर दोनों कथनों का एक साथ उपयोग करने पर भी नहीं दिया जा सकता है।

2.

यदि प्रश्न का उत्तर किसी एक कथन का उपयोग अकेले करके दिया जा सकता है लेकिन दूसरे कथन का उपयोग अकेले करके उत्तर नहीं दिया जा सकता है।

3.

यदि प्रश्न का उत्तर दोनों कथनों का एक साथ उपयोग करके दिया जा सकता है, लेकिन किसी एक कथन से अकेले नहीं।

4.

यदि प्रश्न का उत्तर कथन (I) या (II) में से किसी भी एक का अकेले उपयोग करके दिया जा सकता है।

Question ID : 630680485826

Option 1 ID : 6306801897518

Option 2 ID : 6306801897515

Option 3 ID : 6306801897517

Option 4 ID : 6306801897516

Status : Answered

Chosen Option : 4

Q.10 आठ शिक्षक A, B, C, D, E, F, G तथा H केंद्र की ओर मुख करके एक वृत्ताकार मेज के इर्द-गिर्द बैठे हुए हैं (जरूरी नहीं की इसी क्रम में हो)। F, C के दायीं ओर तीसरे स्थान पर है। H, C के बायीं ओर तीसरे स्थान पर है। D, C या H का निकटतम पड़ोसी नहीं है। E, A के तुरंत दायीं ओर है। G, A के बायीं ओर दूसरे स्थान पर है। E के दायीं ओर तीसरे स्थान पर कौन है?

Ans  1. A

2. D

3. G

4. C

Question ID : 630680485819

Option 1 ID : 6306801897489

Option 2 ID : 6306801897487

Option 3 ID : 6306801897488

Option 4 ID : 6306801897490

Status : Answered

Chosen Option : 2

Section : Quantitative Aptitude



Q.1 10000 रुपये की एक राशि पर 40 प्रतिशत की वार्षिक दर से अर्धवार्षिक संयोजन पर एक वर्ष का चक्रवृद्धि ब्याज क्या है?

- Ans
- 1. 4700 रुपये
  - 2. 4000 रुपये
  - 3. 4400 रुपये
  - 4. 4800 रुपये

Question ID : 630680485830  
Option 1 ID : 6306801897531  
Option 2 ID : 6306801897532  
Option 3 ID : 6306801897533  
Option 4 ID : 6306801897534  
Status : Answered  
Chosen Option : 2

Q.2 What is the value of  $(x^2 - x + 1)(x + 1)$ ?

- Ans
- 1.  $x^3 - x$
  - 2.  $x^3 - x^2$
  - 3.  $x^3 + 1$
  - 4.  $x^3 - 1$

Question ID : 630680485837  
Option 1 ID : 6306801897560  
Option 2 ID : 6306801897562  
Option 3 ID : 6306801897561  
Option 4 ID : 6306801897559  
Status : Answered  
Chosen Option : 3

Q.3 यदि G, H से 30 प्रतिशत कम है तथा H, 1220 से 50 प्रतिशत अधिक है, तो G का मान क्या है?

- Ans
- 1. 1181
  - 2. 1281
  - 3. 1081
  - 4. 1381

Question ID : 630680485831  
Option 1 ID : 6306801897537  
Option 2 ID : 6306801897535  
Option 3 ID : 6306801897538  
Option 4 ID : 6306801897536  
Status : Answered  
Chosen Option : 2

Q.4 N1, N2 तथा N3 एक कार्य को क्रमशः 50, 25 तथा 37.5 दिनों में कर सकते हैं। उन तीनों ने साथ मिलकर काम करना आरंभ किया परंतु N2 कार्य समाप्त होने से 7.5 दिन पूर्व कार्य छोड़कर चला गया। कार्य कितने दिनों में पूरा हुआ होगा?

- Ans
- 1. 15 दिन
  - 2. 10 दिन
  - 3. 18 दिन
  - 4. 17 दिन

Question ID : 630680485834  
Option 1 ID : 6306801897547  
Option 2 ID : 6306801897549  
Option 3 ID : 6306801897548  
Option 4 ID : 6306801897550  
Status : Answered  
Chosen Option : 4

Q.5 यदि दिए गए शंकु की ऊँचाई  $1/3$  हो जाए तथा उसके आधार की त्रिज्या समान रहे, तो दिए गए शंकु तथा नये शंकु के आयतन का अनुपात क्या है?

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

Question ID : 630680485840  
Option 1 ID : 6306801897573  
Option 2 ID : 6306801897572  
Option 3 ID : 6306801897571  
Option 4 ID : 6306801897574  
Status : Answered  
Chosen Option : 3

Q.6 एक बस अपनी कुल यात्रा का  $3/4$  भाग सामान्य गति से तय करती है। बची हुई दूरी बस द्वारा उसकी सामान्य गति की  $1/4$  गति से तय की जाती है। धीमी गति के कारण वह अपने गंतव्य स्थान पर 120 मिनट की देरी से पहुँचती है। यदि कुल दूरी 200 कि.मी. है, तो बस की सामान्य गति क्या है?

- Ans
- 1. 75 कि.मी./घंटा
  - 2. 90 कि.मी./घंटा
  - 3. 100 कि.मी./घंटा
  - 4. 60 कि.मी./घंटा

Question ID : 630680485835  
Option 1 ID : 6306801897552  
Option 2 ID : 6306801897551  
Option 3 ID : 6306801897554  
Option 4 ID : 6306801897553  
Status : Answered  
Chosen Option : 4

Q.7 एक वृत्त में एक जीवा की लंबाई 30 से.मी. है जिसका व्यास 34 से.मी. है। इस जीवा की केंद्र से दूरी क्या होगी?

- Ans
- 1. 15 से.मी.
  - 2. 8 से.मी.
  - 3. 12 से.मी.
  - 4. 9 से.मी.

Question ID : 630680485841  
Option 1 ID : 6306801897578  
Option 2 ID : 6306801897575  
Option 3 ID : 6306801897577  
Option 4 ID : 6306801897576  
Status : Answered  
Chosen Option : 2

Q.8 यदि  $5P = 7Q$  है, तो  $(P + Q)/P$  का मान क्या है?

- Ans
- 1. 12/7
  - 2. 7/12
  - 3. 11/7
  - 4. 9/7

Question ID : 630680485833  
Option 1 ID : 6306801897545  
Option 2 ID : 6306801897543  
Option 3 ID : 6306801897544  
Option 4 ID : 6306801897546  
Status : Answered  
Chosen Option : 1

Q.9 P, Q को एक पेन 30 प्रतिशत के लाभ पर बेचता है तथा Q उसे R को 30 प्रतिशत के लाभ पर बेचता है। P तथा R के क्रय मूल्यों का अनुपात क्या है?

- Ans
- 1. 100 : 169
  - 2. 100 : 133
  - 3. 50 : 67
  - 4. 81 : 50

Question ID : 630680485832  
Option 1 ID : 6306801897540  
Option 2 ID : 6306801897539  
Option 3 ID : 6306801897542  
Option 4 ID : 6306801897541  
Status : Answered  
Chosen Option : 1

Q.10 तीन लड़कियों में से, पहली लड़की का भार, दूसरी लड़की के भार का आधा है तथा तीसरी लड़की के भार का दोगुना है। यदि इन तीन लड़कियों का औसत भार 84 कि.ग्रा. है, तो दूसरी तथा तीसरी लड़की का कुल भार क्या होगा?

- Ans
- ✓ 1. 180 कि.ग्रा.
  - ✗ 2. 195 कि.ग्रा.
  - ✗ 3. 170 कि.ग्रा.
  - ✗ 4. 198 कि.ग्रा.

Question ID : 630680485829  
Option 1 ID : 6306801897528  
Option 2 ID : 6306801897527  
Option 3 ID : 6306801897529  
Option 4 ID : 6306801897530  
Status : Answered  
Chosen Option : 1

Q.11 What is the value of  $(a + b)^2 + (a - b)^2$ ?

- Ans
- ✗ 1.  $8ab$
  - ✓ 2.  $2(a^2 + b^2)$
  - ✗ 3.  $4ab$
  - ✗ 4.  $4(a^2 + b^2)$

Question ID : 630680485836  
Option 1 ID : 6306801897558  
Option 2 ID : 6306801897555  
Option 3 ID : 6306801897557  
Option 4 ID : 6306801897556  
Status : Answered  
Chosen Option : 2

Q.12 एक वर्ग के विकर्ण की लम्बाई 12 से.मी. है। वर्ग का क्षेत्रफल क्या है?

- Ans
- ✗ 1.  $48 \text{ से.मी.}^2$
  - ✓ 2.  $72 \text{ से.मी.}^2$
  - ✗ 3.  $60 \text{ से.मी.}^2$
  - ✗ 4.  $94 \text{ से.मी.}^2$

Question ID : 630680485839  
Option 1 ID : 6306801897569  
Option 2 ID : 6306801897567  
Option 3 ID : 6306801897568  
Option 4 ID : 6306801897570  
Status : Answered  
Chosen Option : 2

Q.13 दो निष्पक्ष पासे फेंके जाते हैं। 5 का योग प्राप्त होने की प्रायिकता क्या है?

- Ans
- 1.  $\frac{1}{11}$
  - 2.  $\frac{1}{8}$
  - 3.  $\frac{1}{7}$
  - 4.  $\frac{1}{9}$

Question ID : 630680485838  
Option 1 ID : 6306801897566  
Option 2 ID : 6306801897564  
Option 3 ID : 6306801897565  
Option 4 ID : 6306801897563  
Status : Answered  
Chosen Option : 4

Q.14 42 से.मी. त्रिज्या वाले दो वृत्त एक दूसरे को इस प्रकार प्रतिच्छेद करते हैं कि प्रत्येक एक दूसरे के केंद्र से होकर गुजरता है। उभयनिष्ठ जीवा की लंबाई क्या है?

- Ans
- 1. 42 से.मी.
  - 2. 27 से.मी.
  - 3.  $18\sqrt{3}$  से.मी.
  - 4.  $42\sqrt{3}$  से.मी.

Question ID : 630680485842  
Option 1 ID : 6306801897582  
Option 2 ID : 6306801897581  
Option 3 ID : 6306801897579  
Option 4 ID : 6306801897580  
Status : Answered  
Chosen Option : 1

Q.15 यदि  $\sin A = \frac{3}{4}$  है, तो  $\cos A$  का मान क्या है?

- Ans
- 1.  $\frac{\sqrt{7}}{4}$
  - 2.  $\frac{3}{\sqrt{7}}$
  - 3.  $\frac{4}{3}$
  - 4.  $\frac{\sqrt{7}}{3}$

Question ID : 630680485843  
Option 1 ID : 6306801897584  
Option 2 ID : 6306801897586  
Option 3 ID : 6306801897585  
Option 4 ID : 6306801897583  
Status : Answered  
Chosen Option : 1

Q.1 किस कंपनी ने भारत की पहली हाइड्रोजन आंतरिक दहन इंजन (H2ICE) तकनीक लॉन्च की?

- Ans
- 1. हीरो मोटो कॉर्प
  - 2. टाटा मोटर्स
  - 3. रिलायंस इंडस्ट्रीज
  - 4. महिंद्रा एंड महिंद्रा

Question ID : 630680485845  
Option 1 ID : 6306801897594  
Option 2 ID : 6306801897593  
Option 3 ID : 6306801897591  
Option 4 ID : 6306801897592  
Status : Not Answered  
Chosen Option : --

Q.2 निम्नलिखित में से कौन सा अधिकार 'स्वतंत्रता का अधिकार' में शामिल नहीं है?

- Ans
- 1. संगठन और संघ बनाने की स्वतंत्रता
  - 2. शांतिपूर्ण ढंग से जमा होने की स्वतंत्रता
  - 3. अभिव्यक्ति की स्वतंत्रता
  - 4. विश्व में कहीं भी आने-जाने की स्वतंत्रता

Question ID : 630680485854  
Option 1 ID : 6306801897629  
Option 2 ID : 6306801897628  
Option 3 ID : 6306801897627  
Option 4 ID : 6306801897630  
Status : Answered  
Chosen Option : 4

Q.3 निम्नलिखित में से कौन सा भारत में ग्रीष्म ऋतु का अभिलक्षण है?

- Ans
- 1. लू, इस ऋतु का एक प्रभावी लक्षण है।
  - 2. दिन गर्म और रातें ठंडी होती हैं।
  - 3. इस ऋतु में, देश में उत्तर-पूर्वी व्यापारिक पवनें प्रवाहित होती हैं।
  - 4. तापमान दक्षिण से उत्तर की ओर घटता जाता है

Question ID : 630680485851  
Option 1 ID : 6306801897618  
Option 2 ID : 6306801897616  
Option 3 ID : 6306801897617  
Option 4 ID : 6306801897615  
Status : Answered  
Chosen Option : 1

Q.4 निम्नलिखित में से कौन सा युग्म सही सुमेलित है?

- I. शर्करा – सरल कार्बोहाइड्रेट  
II. चावल – जटिल कार्बोहाइड्रेट

- Ans  1. केवल II  
 2. I तथा II दोनों  
 3. ना ही I ना ही II  
 4. केवल I

Question ID : 630680485858  
Option 1 ID : 6306801897645  
Option 2 ID : 6306801897644  
Option 3 ID : 6306801897646  
Option 4 ID : 6306801897643  
Status : Answered  
Chosen Option : 2

Q.5 भारत की संसद में शामिल हैं:

- I. राष्ट्रपति  
II. राज्य सभा  
III. लोकसभा

- Ans  1. केवल I तथा III  
 2. केवल II तथा III  
 3. केवल I तथा II  
 4. I, II तथा III

Question ID : 630680485856  
Option 1 ID : 6306801897637  
Option 2 ID : 6306801897636  
Option 3 ID : 6306801897635  
Option 4 ID : 6306801897638  
Status : Answered  
Chosen Option : 4

Q.6 "सब के लिए एक जाति, एक धर्म, एक ईश्वर" का नारा किसने दिया?

- Ans  1. ज्योतिराव फुले  
 2. ई.वी. रामास्वामी नायकर  
 3. एम.एन. श्रीनिवास  
 4. श्री नारायण गुरु

Question ID : 630680485849  
Option 1 ID : 6306801897607  
Option 2 ID : 6306801897608  
Option 3 ID : 6306801897609  
Option 4 ID : 6306801897610  
Status : Not Answered  
Chosen Option : --

Q.7 निम्नलिखित में से किस खेल में सरबजोत सिंह ने हांग्जो एशियाई खेल 2023 में भारत के लिए स्वर्ण पदक जीता?

- Ans
- 1. मुक्केबाजी
  - 2. टेबल टेनिस
  - 3. फुटबॉल
  - 4. निशानेबाजी

Question ID : 630680485844  
Option 1 ID : 6306801897589  
Option 2 ID : 6306801897587  
Option 3 ID : 6306801897590  
Option 4 ID : 6306801897588  
Status : Not Answered  
Chosen Option : --

Q.8 पुणे में बालिकाओं के लिए बने देश के पहले विद्यालय की पहली प्रधान अध्यापिका कौन थीं?

- Ans
- 1. सुचेता कृपलानी
  - 2. सवित्री बाई फुले
  - 3. अरुणा आसफ अली
  - 4. आनंदीबाई गोपालराव जोशी

Question ID : 630680485848  
Option 1 ID : 6306801897605  
Option 2 ID : 6306801897606  
Option 3 ID : 6306801897604  
Option 4 ID : 6306801897603  
Status : Answered  
Chosen Option : 2

Q.9 सिंधु नदी की लंबाई कितनी है?

- Ans
- 1. 2500 कि.मी.
  - 2. 2900 कि.मी.
  - 3. 3500 कि.मी.
  - 4. 2000 कि.मी.

Question ID : 630680485852  
Option 1 ID : 6306801897620  
Option 2 ID : 6306801897621  
Option 3 ID : 6306801897622  
Option 4 ID : 6306801897619  
Status : Answered  
Chosen Option : 2

Q.10 राज्य सभा के सदस्यों का चुनाव \_\_\_\_\_ करते हैं।

- Ans
- 1. विभिन्न राज्यों की विधानसभाओं के मनोनीत सदस्य
  - 2. विभिन्न राज्यों की विधानसभाओं के निर्वाचित तथा मनोनीत सदस्य
  - 3. विभिन्न राज्यों की विधानसभाओं के निर्वाचित सदस्य
  - 4. लोकसभा के निर्वाचित सदस्य

Question ID : 630680485855  
Option 1 ID : 6306801897632  
Option 2 ID : 6306801897634  
Option 3 ID : 6306801897631  
Option 4 ID : 6306801897633  
Status : Answered  
Chosen Option : 2



Q.11 निम्नलिखित में से कौन सा ऊर्जा का मुख्य स्रोत है?

- Ans
- 1. विटामिन
  - 2. खनिज
  - 3. कार्बोहाइड्रेट
  - 4. प्रोटीन

Question ID : 630680485857  
Option 1 ID : 6306801897641  
Option 2 ID : 6306801897642  
Option 3 ID : 6306801897639  
Option 4 ID : 6306801897640  
Status : Answered  
Chosen Option : 3

Q.12 किस मंत्रालय ने PM-KISAN योजना के लिए AI चैटबॉट लॉन्च किया?

- Ans
- 1. इलेक्ट्रॉनिक्स एवं सूचना प्रौद्योगिकी मंत्रालय
  - 2. कृषि एवं किसान कल्याण मंत्रालय
  - 3. सामाजिक न्याय और अधिकारिता मंत्रालय
  - 4. ग्रामीण विकास मंत्रालय

Question ID : 630680485846  
Option 1 ID : 6306801897597  
Option 2 ID : 6306801897596  
Option 3 ID : 6306801897595  
Option 4 ID : 6306801897598  
Status : Answered  
Chosen Option : 2

Q.13 सितंबर 2023 में, केंद्रीय मंत्रिमंडल ने \_\_\_\_\_ रुपये के वित्तीय परिव्यय के साथ एक केंद्रीय क्षेत्र की योजना के रूप में ई-कोर्ट परियोजना चरण-3 को मंजूरी दी।

- Ans
- 1. 6210 करोड़
  - 2. 7210 करोड़
  - 3. 8210 करोड़
  - 4. 5210 करोड़

Question ID : 630680485847  
Option 1 ID : 6306801897599  
Option 2 ID : 6306801897601  
Option 3 ID : 6306801897600  
Option 4 ID : 6306801897602  
Status : Not Answered  
Chosen Option : --

Q.14 2011 की जनगणना के अनुसार, 2001-2011 के दशक में भारत की जनसंख्या की वृद्धि दर \_\_\_\_\_ थी।

- Ans
- 1. 17.7 प्रतिशत
  - 2. 11.7 प्रतिशत
  - 3. 19.7 प्रतिशत
  - 4. 13.7 प्रतिशत

Question ID : 630680485853  
Option 1 ID : 6306801897625  
Option 2 ID : 6306801897623  
Option 3 ID : 6306801897626  
Option 4 ID : 6306801897624  
Status : Not Answered  
Chosen Option : --

Q.15 निम्नलिखित में से 'सुधारवादी संगठन – संस्थापक' का कौन सा युग्म सही सुमेलित है?

I. आर्य समाज – स्वामी दयानंद सरस्वती

II. सत्यशोधक समाज – ज्योतिराव फुले

- Ans
- 1. केवल I
  - 2. केवल II
  - 3. I तथा II दोनों
  - 4. ना ही I ना ही II

Question ID : 630680485850

Option 1 ID : 6306801897611

Option 2 ID : 6306801897612

Option 3 ID : 6306801897613

Option 4 ID : 6306801897614

Status : Answered

Chosen Option : 3