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SOUTHEASTERN COALFIELDS LTD.

"A Mini Ratna Company"

CIN: U10102CT1985G01003161

(A Subsidiary of Coal India Ltd.)

Seepat Rd, P.B. No. 60, Bilaspur (C.G.) 495006

Phone No. & FAX No.: 07752-246463

OFFICE OF THE GENERAL MANAGER (HR/MP)



Participant ID	
Participant Name	
Test Center Name	
Test Date	02/07/2026
Test Time	5:00 PM - 7:00 PM
Subject	Assistant Foreman Electrical T and S Grade C

Section : Part A Subject Knowledge

Q.1 How does a parabolic dish in a Concentrated Solar Power (CSP) system maintain focus on the receiver throughout the day?

- Ans**
- ☒ 1. It relies on a fixed position during daylight hours.
 - ☒ 2. It uses a single-axis tracker to adjust angle.
 - ☒ 3. It adjusts mirrors manually at intervals.
 - ☒ 4. It uses a dual-axis tracking system to follow the sun's movement.

Question ID : 4410091801076

Option 1 ID : 4410097101331

Option 2 ID : 4410097101332

Option 3 ID : 4410097101333

Option 4 ID : 4410097101334

Status : Answered

Chosen Option : 4

Q.2 In electric and magnetic circuits, how can the heating effect of current be minimized to prevent energy loss?

- Ans
- ☐ 1. Increasing voltage
 - ☒ 2. Using low resistance conductors
 - ☐ 3. Using thicker insulation
 - ☐ 4. Using high resistance conductors

Question ID : 4410091814162
Option 1 ID : 4410097152296
Option 2 ID : 4410097152294
Option 3 ID : 4410097152297
Option 4 ID : 4410097152295
Status : Answered
Chosen Option : 2

Q.3 A synchronous motor is required to operate at rated speed while delivering constant torque under normal conditions. Which type of torque should be considered for proper performance?

- Ans
- ☐ 1. Pull-out torque
 - ☐ 2. Locked-rotor torque
 - ☒ 3. Running torque
 - ☐ 4. Pull-in torque

Question ID : 4410091807998
Option 1 ID : 4410097128325
Option 2 ID : 4410097128322
Option 3 ID : 4410097128324
Option 4 ID : 4410097128323
Status : Answered
Chosen Option : 3

Q.4 In a single-blade downwind wind power plant, a counterweight is attached to the rotor in order to ____.

- Ans
- ☐ 1. Improve the aerodynamic lift generated by the single blade during rotation
 - ☐ 2. Increase the swept area of the single blade during full rotor rotation
 - ☒ 3. Balance the rotor mass and reduce the vibration caused during rotor rotation
 - ☐ 4. Increase the rotational speed of the single blade at low wind speed conditions

Question ID : 4410091843263
Option 1 ID : 4410097266094
Option 2 ID : 4410097266093
Option 3 ID : 4410097266095
Option 4 ID : 4410097266096
Status : Answered
Chosen Option : 3

Q.5 In a DC generator, the outer cylindrical frame made of cast steel rigidly supports the main poles. Which essential subsystem of the machine is being described?

- Ans**
- ☒ 1. Pole Shoes
 - ☒ 2. Yoke
 - ☒ 3. Field Coils
 - ☒ 4. Armature Core

Question ID : 4410091810598

Option 1 ID : 4410097138420

Option 2 ID : 4410097138418

Option 3 ID : 4410097138419

Option 4 ID : 4410097138417

Status : Answered

Chosen Option : 2

Q.6 Which electrolyte is commonly used in a Nickel-iron cell?

- Ans**
- ☒ 1. Ammonium sulfate
 - ☒ 2. Sulfuric acid
 - ☒ 3. Potassium hydroxide
 - ☒ 4. Sodium chloride

Question ID : 4410091802116

Option 1 ID : 4410097105416

Option 2 ID : 4410097105413

Option 3 ID : 4410097105414

Option 4 ID : 4410097105415

Status : Answered

Chosen Option : 3

Q.7 Which function does an Earth Leakage Circuit Breaker (ELCB) provide in an electrical circuit?

- Ans**
- ☒ 1. Switches on appliances remotely
 - ☒ 2. Regulates voltage levels
 - ☒ 3. Detects earth leakage and disconnects the supply
 - ☒ 4. Measures the total current usage

Question ID : 4410091799305

Option 1 ID : 4410097094301

Option 2 ID : 4410097094300

Option 3 ID : 4410097094298

Option 4 ID : 4410097094299

Status : Answered

Chosen Option : 3

Q.8 Why is the use of SF6 circuit breakers preferred over oil circuit breakers in high voltage applications?

- Ans
- ☐ 1. They are smaller in physical size
 - ☐ 2. They are cheaper than oil circuit breakers
 - ☐ 3. They are easier to install
 - ☒ 4. SF6 circuit breakers provide better arc extinction and require less maintenance

Question ID : 4410091799339
Option 1 ID : 4410097094432
Option 2 ID : 4410097094431
Option 3 ID : 4410097094433
Option 4 ID : 4410097094430
Status : Answered
Chosen Option : 4

Q.9 Which lighting method is suitable for illuminating large farm areas during night hours?

- Ans
- ☐ 1. Low pressure mercury lamps
 - ☒ 2. High pressure sodium vapour lamps
 - ☐ 3. Compact fluorescent lights
 - ☐ 4. Halogen spot lights

Question ID : 4410091821303
Option 1 ID : 4410097180388
Option 2 ID : 4410097180389
Option 3 ID : 4410097180391
Option 4 ID : 4410097180390
Status : Answered
Chosen Option : 4

Q.10 In three-phase circuits, which of the following correctly describes the line current in a balanced star-connected (Y-connected) load?

- Ans
- ☐ 1. Line current is zero
 - ☐ 2. Line current is the sum of all phase currents
 - ☐ 3. Line current equals line voltage divided by total load impedance
 - ☒ 4. Line current is equal to the corresponding phase current

Question ID : 4410091823753
Option 1 ID : 4410097189662
Option 2 ID : 4410097189661
Option 3 ID : 4410097189663
Option 4 ID : 4410097189660
Status : Answered
Chosen Option : 4

Q.11 Which of the following best describes the effect of increasing bandwidth in a parallel resonant circuit?

- Ans ☒ 1. Selectivity decreases
- ☐ 2. Total impedance at resonance increases
- ☐ 3. Quality factor increases
- ☐ 4. Selectivity increases

Question ID : 4410091807648

Option 1 ID : 4410097126930

Option 2 ID : 4410097126933

Option 3 ID : 4410097126932

Option 4 ID : 4410097126931

Status : Answered

Chosen Option : 1

Q.12 A single-phase induction motor is being analyzed at standstill for its equivalent circuit. The engineer notes that the motor behaves similarly to a transformer with its secondary short-circuited, but recognizes the presence of two oppositely revolving fields. How are the rotor resistance and reactance values represented in the equivalent circuit for each field under this condition?

- Ans ☐ 1. Rotor resistance is ignored while only reactance is halved for each field.
- ☐ 2. Both rotor resistance and reactance are doubled for each field.
- ☐ 3. Each field's rotor resistance and reactance remain at their full values, R_2' and X_2' .
- ☒ 4. Each field's rotor resistance and reactance are taken as half of their original values, $R_2'/2$ and $X_2'/2$, respectively.

Question ID : 4410091802547

Option 1 ID : 4410097107107

Option 2 ID : 4410097107108

Option 3 ID : 4410097107106

Option 4 ID : 4410097107105

Status : Answered

Chosen Option : 4

Q.13 Which principle does Lenz's law uphold?

- Ans ☒ 1. Conservation of energy
- ☐ 2. Conservation of angular momentum
- ☐ 3. Conservation of charge
- ☐ 4. Conservation of mass

Question ID : 4410091813147

Option 1 ID : 4410097148242

Option 2 ID : 4410097148244

Option 3 ID : 4410097148243

Option 4 ID : 4410097148245

Status : Answered

Chosen Option : 1

Q.14 Which component in a solar PV off-grid system stores energy for use during nighttime or cloudy periods?

- Ans
- ☒ 1. Solar PV Panel
 - ☒ 2. Inverter
 - ☒ 3. Charge controller
 - ☒ 4. Battery bank

Question ID : 4410091808259
Option 1 ID : 4410097129391
Option 2 ID : 4410097129393
Option 3 ID : 4410097129392
Option 4 ID : 4410097129390
Status : Answered
Chosen Option : 4

Q.15 A transformer operates with minimal thermal losses. What does this indicate about its efficiency?

- Ans
- ☒ 1. It produces high thermal energy
 - ☒ 2. It has low magnetic efficiency
 - ☒ 3. It has high electrical efficiency
 - ☒ 4. It has high thermal efficiency

Question ID : 4410091813057
Option 1 ID : 4410097147900
Option 2 ID : 4410097147901
Option 3 ID : 4410097147898
Option 4 ID : 4410097147899
Status : Answered
Chosen Option : 3

Q.16 In a parallel RC circuit, what is the phase relationship between the current through the resistor and the current through the capacitor?

- Ans
- ☒ 1. They are 180 degrees out of phase
 - ☒ 2. The capacitor current leads the resistor current by 90°
 - ☒ 3. The capacitor current lags the resistor current by 45°
 - ☒ 4. They are in phase

Question ID : 4410091817426
Option 1 ID : 4410097165124
Option 2 ID : 4410097165123
Option 3 ID : 4410097165125
Option 4 ID : 4410097165122
Status : Answered
Chosen Option : 2

Q.17 If four branches meet at a node with currents of 2 A in, 3 A in, and 1 A out, what is the value and direction of the fourth branch current?

- Ans ☒ 1. 2 A out
☒ 2. 4 A out
☒ 3. 5 A in
☒ 4. 2 A in

Question ID : 4410091812998
Option 1 ID : 4410097147664
Option 2 ID : 4410097147662
Option 3 ID : 4410097147665
Option 4 ID : 4410097147663
Status : Answered
Chosen Option : 2

Q.18 Which component in a solar heating system is responsible for transferring heat from the solar collector to the storage tank?

- Ans ☒ 1. Thermostat
☒ 2. Pump
☒ 3. Heat exchanger
☒ 4. Insulation

Question ID : 4410091801200
Option 1 ID : 4410097101799
Option 2 ID : 4410097101802
Option 3 ID : 4410097101800
Option 4 ID : 4410097101801
Status : Answered
Chosen Option : 3

Q.19 A classroom measures 8 meters by 5 meters. If the recommended lighting load is 12 watts per square meter, what is the total lighting load required for the room?

- Ans ☒ 1. 400 watts
☒ 2. 96 watts
☒ 3. 480 watts
☒ 4. 120 watts

Question ID : 4410091805761
Option 1 ID : 4410097119706
Option 2 ID : 4410097119708
Option 3 ID : 4410097119707
Option 4 ID : 4410097119709
Status : Answered
Chosen Option : 3

Q.20 Which of the following is NOT determined by the rupturing capacity of a protective device?

- Ans
- ☒ 1. The maximum fault current it can break
 - ☒ 2. The steady-state current it can carry
 - ☒ 3. Selection rating for protective device
 - ☒ 4. Device safety during faults

Question ID : 4410091797138
Option 1 ID : 4410097085815
Option 2 ID : 4410097085814
Option 3 ID : 4410097085817
Option 4 ID : 4410097085816
Status : Answered
Chosen Option : 2

Q.21 Which property of a dielectric material most directly affects its dielectric loss?

- Ans
- ☒ 1. Relative permittivity
 - ☒ 2. Volume resistivity
 - ☒ 3. Dielectric dissipation factor (tan delta)
 - ☒ 4. Dielectric strength

Question ID : 4410091802407
Option 1 ID : 4410097106570
Option 2 ID : 4410097106572
Option 3 ID : 4410097106569
Option 4 ID : 4410097106571
Status : Answered
Chosen Option : 3

Q.22 For measuring the power factor along with power in a single-phase AC circuit, which type of electrodynamic instrument is appropriate?

- Ans
- ☒ 1. Moving iron ammeter
 - ☒ 2. Induction type energy meter
 - ☒ 3. Moving coil voltmeter
 - ☒ 4. Dynamometer type wattmeter

Question ID : 4410091799969
Option 1 ID : 4410097096976
Option 2 ID : 4410097096975
Option 3 ID : 4410097096977
Option 4 ID : 4410097096974
Status : Answered
Chosen Option : 4

Q.23 At a grid substation, the engineering team must ensure continuity of supply even if one transformer fails. They decide to keep spare transformers on site. Which transformer configuration best helps reduce the required size of the spare transformer while still maintaining reliability?

- Ans
- ☒ 1. Use a single large transformer for the entire load
 - ☒ 2. Use a single transformer connected in series with the load
 - ☒ 3. Use one main transformer and no spare units
 - ☒ 4. Use several smaller transformers operating in parallel

Question ID : 4410091817544

Option 1 ID : 4410097165586

Option 2 ID : 4410097165589

Option 3 ID : 4410097165588

Option 4 ID : 4410097165587

Status : Answered

Chosen Option : 4

Q.24 During testing of a DC motor at constant speed and load, the input current increases while the mechanical output power remains unchanged. Which loss increases directly with armature current and reduces efficiency?

- Ans
- ☒ 1. Armature copper loss due to increased $I_a^2 R_a$ loss
 - ☒ 2. Eddy current loss due to higher magnetic flux density
 - ☒ 3. Mechanical loss due to increased friction and windage
 - ☒ 4. Iron loss in the armature core due to magnetic hysteresis

Question ID : 4410091813542

Option 1 ID : 4410097149854

Option 2 ID : 4410097149857

Option 3 ID : 4410097149856

Option 4 ID : 4410097149855

Status : Answered

Chosen Option : 1

Q.25 Which type of hydro turbine is used for medium head applications?

- Ans
- ☒ 1. Propeller turbine
 - ☒ 2. Kaplan turbine
 - ☒ 3. Pelton turbine
 - ☒ 4. Francis turbine

Question ID : 4410091808744

Option 1 ID : 4410097131284

Option 2 ID : 4410097131283

Option 3 ID : 4410097131282

Option 4 ID : 4410097131281

Status : Answered

Chosen Option : 4

Q.26 How is the reach of a distance relay determined?

- Ans
- ☐ 1. By the current rating
 - ☐ 2. By the voltage rating
 - ☒ 3. By the relay's impedance setting
 - ☐ 4. By the transformer type

Question ID : 4410091799927

Option 1 ID : 4410097096809

Option 2 ID : 4410097096807

Option 3 ID : 4410097096806

Option 4 ID : 4410097096808

Status : Answered

Chosen Option : 3

Q.27 In the context of 400V distribution system construction, which method offers enhanced reliability by providing alternative paths for power flow if one section is interrupted?

- Ans
- ☐ 1. Both radial and tree systems
 - ☐ 2. Radial system
 - ☐ 3. Tree system
 - ☒ 4. Interconnected system

Question ID : 4410091811485

Option 1 ID : 4410097141810

Option 2 ID : 4410097141807

Option 3 ID : 4410097141808

Option 4 ID : 4410097141809

Status : Answered

Chosen Option : 4

Q.28 What will happen if field failure protection is NOT provided in an alternator?

- Ans
- ☐ 1. Alternator startor current start decreasing
 - ☒ 2. Alternator may operate as an induction generator
 - ☐ 3. Alternator will stop immediately
 - ☐ 4. Alternator reverses direction

Question ID : 4410091801576

Option 1 ID : 4410097103278

Option 2 ID : 4410097103275

Option 3 ID : 4410097103276

Option 4 ID : 4410097103277

Status : Answered

Chosen Option : 2

Q.29 Which of the following property should be an essential feature of underground cable to be used in 400V distribution system?

- Ans
- ☒ 1. Cable should have low dielectric strength
 - ☒ 2. Cable should be hygroscopic
 - ☒ 3. Cable should have low insulation resistance
 - ☒ 4. Cable should be armoured

Question ID : 4410091811484
Option 1 ID : 4410097141806
Option 2 ID : 4410097141803
Option 3 ID : 4410097141805
Option 4 ID : 4410097141804
Status : Answered
Chosen Option : 4

Q.30 Which property is typical for plastic insulating materials like thermoplastic resins?

- Ans
- ☒ 1. High electrical resistivity
 - ☒ 2. High electrical conductivity
 - ☒ 3. Natural brittleness
 - ☒ 4. High magnetic permeability

Question ID : 4410091806424
Option 1 ID : 4410097122322
Option 2 ID : 4410097122323
Option 3 ID : 4410097122325
Option 4 ID : 4410097122324
Status : Answered
Chosen Option : 1

Q.31 What is the main disadvantage of a PMMC instrument in industrial applications?

- Ans
- ☒ 1. Cannot be used for AC measurements
 - ☒ 2. Scale is non-linear
 - ☒ 3. Accuracy is low
 - ☒ 4. Sensitivity is poor

Question ID : 4410091800148
Option 1 ID : 4410097097670
Option 2 ID : 4410097097672
Option 3 ID : 4410097097671
Option 4 ID : 4410097097673
Status : Answered
Chosen Option : 1

Q.32 A fuse with a fusing factor of 1.5 and a rated current of 10A will melt at a minimum current of:

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

Question ID : 4410091797077

Option 1 ID : 4410097085590

Option 2 ID : 4410097085591

Option 3 ID : 4410097085593

Option 4 ID : 4410097085592

Status : Answered

Chosen Option : 4

Q.33 What does the 'pickup' value refer to in the context of protective relays?

- Ans
- ☐ 1. The time taken to respond
 - ☐ 2. The maximum value at which the relay resets
 - ☒ 3. The minimum value of actuating quantity at which the relay starts to operate
 - ☐ 4. The average value for relay operation

Question ID : 4410091801631

Option 1 ID : 4410097103494

Option 2 ID : 4410097103492

Option 3 ID : 4410097103491

Option 4 ID : 4410097103493

Status : Answered

Chosen Option : 3

Q.34 A DC motor in a conveyor system experiences supply voltage fluctuations. The speed drops during low-voltage periods, while field current and load remain constant. Which principle explains this observation based on the speed control equation?

- Ans
- ☒ 1. Speed is directly proportional to net voltage across the armature
 - ☐ 2. Speed increases with increasing field flux
 - ☐ 3. Speed remains constant as long as armature resistance is unchanged
 - ☐ 4. Speed is independent of applied voltage if flux is constant

Question ID : 4410091816118

Option 1 ID : 4410097159952

Option 2 ID : 4410097159951

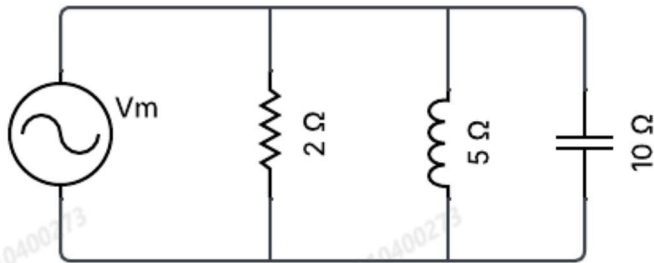
Option 3 ID : 4410097159953

Option 4 ID : 4410097159950

Status : Answered

Chosen Option : 1

Q.35 Find the input admittance of the given parallel circuit.



- Ans**
- ☒ 1. $(2 + j 1) \text{ mho}$
 - ☒ 2. $(0.2 - j 0.5) \text{ mho}$
 - ☒ 3. $(0.5 - j 0.1) \text{ mho}$
 - ☒ 4. $(5 + j 0.1) \text{ mho}$

Question ID : 4410091821596

Option 1 ID : 4410097181530

Option 2 ID : 4410097181531

Option 3 ID : 4410097181528

Option 4 ID : 4410097181529

Status : Answered

Chosen Option : 3

Q.36 Two synchronous generators are analyzed: Machine P with a cylindrical rotor and Machine Q with a salient pole rotor. Both are connected to identical buses and operate with the same excitation and terminal voltages. If the power-angle curves of both machines are plotted, what will be observed regarding the contribution of reluctance power?

- Ans**
- ☒ 1. Machine Q will exhibit a reluctance power component, but Machine P will not
 - ☒ 2. Only Machine P will have a reluctance power component
 - ☒ 3. Neither machine will exhibit any reluctance power component
 - ☒ 4. Both machines will have equal reluctance power components

Question ID : 4410091807953

Option 1 ID : 4410097128142

Option 2 ID : 4410097128144

Option 3 ID : 4410097128145

Option 4 ID : 4410097128143

Status : Answered

Chosen Option : 1

Q.37 A series RLC circuit is operating at its resonant frequency. Which statement correctly describes the impedance at this condition?

- Ans ☒ 1. Impedance is purely resistive and at its maximum value
- ☒ 2. Impedance is purely resistive and at its minimum value
- ☒ 3. Impedance is inductive and increases with frequency
- ☒ 4. Impedance is purely reactive and at its maximum value

Question ID : 4410091823392

Option 1 ID : 4410097188353

Option 2 ID : 4410097188352

Option 3 ID : 4410097188355

Option 4 ID : 4410097188354

Status : Answered

Chosen Option : 2

Q.38 A manufacturer tests two transformer core materials: one with high magnetostriction and one with low magnetostriction. Both have similar hysteresis and eddy current losses. Which is likely to be preferred for use in hospital equipment?

- Ans ☒ 1. Either material, as energy losses are the same
- ☒ 2. The material with higher hysteresis for better reliability
- ☒ 3. The material with high magnetostriction for higher efficiency
- ☒ 4. The material with low magnetostriction for quieter operation

Question ID : 4410091807050

Option 1 ID : 4410097124672

Option 2 ID : 4410097124673

Option 3 ID : 4410097124671

Option 4 ID : 4410097124670

Status : Answered

Chosen Option : 4

Q.39 Which statement correctly describes how R , X_L , and X_C vary with frequency in a series resonant RLC circuit?
(Where, R is the resistance, X_L is the inductive reactance and X_C is the capacitive reactance of the circuit)

- Ans ☒ 1. R increases, X_L decreases, X_C increases
- ☒ 2. R decreases, X_L decreases, X_C increases
- ☒ 3. R is constant, X_L decreases, X_C increases
- ☒ 4. R is constant, X_L increases, X_C decreases

Question ID : 4410091807708

Option 1 ID : 4410097127171

Option 2 ID : 4410097127172

Option 3 ID : 4410097127173

Option 4 ID : 4410097127170

Status : Answered

Chosen Option : 4

Q.40 In the power flow diagram of a three-phase induction machine, which losses are considered negligible under normal running conditions, and why?

- Ans
- ☒ 1. Mechanical losses, because the rotor rotates at almost synchronous speed
 - ☒ 2. Stator copper losses, because current in the stator is always minimal
 - ☒ 3. Rotor iron losses, because the rotor frequency is very low during normal operation
 - ☒ 4. Stator iron losses, because the stator is not exposed to supply frequency

Question ID : 4410091808006
 Option 1 ID : 4410097128356
 Option 2 ID : 4410097128355
 Option 3 ID : 4410097128354
 Option 4 ID : 4410097128357
 Status : Answered
 Chosen Option : 3

Q.41 In an auto-transformer dimmer circuit, what is the function of the auto-transformer?

- Ans
- ☒ 1. Switches the lamp on and off
 - ☒ 2. Varies the output voltage to the lamp
 - ☒ 3. Protects the lamp from overcurrent
 - ☒ 4. Stores electrical energy for lighting

Question ID : 4410091811872
 Option 1 ID : 4410097143158
 Option 2 ID : 4410097143161
 Option 3 ID : 4410097143159
 Option 4 ID : 4410097143160
 Status : Answered
 Chosen Option : 2

Q.42 In an electric power distribution system, which voltage level is used for primary distribution from a substation before step-down to 415 V for secondary distribution?

- Ans
- ☒ 1. 415 V
 - ☒ 2. 33 kV
 - ☒ 3. 132 kV
 - ☒ 4. 11 kV

Question ID : 4410091808141
 Option 1 ID : 4410097128901
 Option 2 ID : 4410097128900
 Option 3 ID : 4410097128899
 Option 4 ID : 4410097128898
 Status : Answered
 Chosen Option : 4

Q.43 In a solar PV cell specification, which parameter indicates the maximum current the cell can provide under optimal sunlight?

- Ans
- ☐ 1. Fill factor (FF)
 - ☐ 2. Open-circuit voltage (Voc)
 - ☐ 3. Maximum power point current (Imp)
 - ☒ 4. Short-circuit current (Isc)

Question ID : 4410091808296
 Option 1 ID : 4410097129540
 Option 2 ID : 4410097129538
 Option 3 ID : 4410097129541
 Option 4 ID : 4410097129539
 Status : Answered
 Chosen Option : 3

Q.44 A single-phase transformer installed in a control room has a name plate indicating 200 kVA, 11000 V / 415 V, 50 Hz. During a routine inspection, an engineer needs to verify the rated secondary voltage. At what condition should the engineer measure this secondary voltage to confirm it matches the name plate rating?

- Ans
- ☐ 1. At short-circuit with primary voltage set to zero
 - ☐ 2. At full load with rated current on the secondary side
 - ☒ 3. At no-load with rated voltage applied to the primary winding
 - ☐ 4. At no-load with secondary winding open and primary voltage half the rated value

Question ID : 4410091816937
 Option 1 ID : 4410097163196
 Option 2 ID : 4410097163194
 Option 3 ID : 4410097163195
 Option 4 ID : 4410097163197
 Status : Answered
 Chosen Option : 4

Q.45 In a Wind Farm Management System, which function does the wind power management software SCADA perform at the Point of Common Coupling?

- Ans
- ☒ 1. It monitors and regulates voltage by coordinating wind farm level controls
 - ☐ 2. It controls the mechanical pitch angle of individual turbine blades directly
 - ☐ 3. It performs fault isolation by disconnecting individual WPPs from the grid
 - ☐ 4. It adjusts the rotor speed of each wind turbine using direct torque commands

Question ID : 4410091838045
 Option 1 ID : 4410097251881
 Option 2 ID : 4410097251880
 Option 3 ID : 4410097251882
 Option 4 ID : 4410097251883
 Status : Answered
 Chosen Option : 1

Q.46 When wind speed exceeds the rated value, the electrical braking system diverts excess electrical energy to which component?

- Ans ☒ 1. A battery bank that stores excess energy for later use
☒ 2. A resistor bank that dissipates excess energy as heat
☒ 3. A transformer bank that steps up excess energy voltage
☒ 4. A capacitor bank that stores excess energy as charge

Question ID : 4410091842736

Option 1 ID : 4410097263947

Option 2 ID : 4410097263945

Option 3 ID : 4410097263948

Option 4 ID : 4410097263946

Status : Answered

Chosen Option : 1

Q.47 A single-phase transformer is being tested for efficiency and voltage regulation. During the test, it is observed that the terminal voltage decreases under full-load conditions due to internal resistance and reactance. If the supply voltage remains constant and the load is increased, which pair of parameters most directly causes the terminal voltage to drop, thereby affecting voltage regulation?

- Ans ☒ 1. Primary and secondary resistance and inductive reactance
☒ 2. Primary and secondary inductive reactance only
☒ 3. Primary and secondary resistance only
☒ 4. External circuit resistance and reactance

Question ID : 4410091816179

Option 1 ID : 4410097160196

Option 2 ID : 4410097160195

Option 3 ID : 4410097160194

Option 4 ID : 4410097160197

Status : Answered

Chosen Option : 1

Q.48 A single-phase AC series circuit has a rms current of 5 A and a supply voltage of 100 V (rms). If the power factor is 0.6, what is the apparent power of the circuit?

- Ans ☒ 1. 500 VA
☒ 2. 20 VA
☒ 3. 300 VA
☒ 4. 360 VA

Question ID : 4410091822615

Option 1 ID : 4410097185288

Option 2 ID : 4410097185290

Option 3 ID : 4410097185289

Option 4 ID : 4410097185291

Status : Answered

Chosen Option : 1

Q.49 What does the rated power of a wind turbine represent?

- Ans
- ☐ 1. Wind speed required for the turbine blades to start rotating
 - ☐ 2. Average electrical energy produced by the turbine during one complete year
 - ☐ 3. Electrical power required for starting the turbine during initial commissioning stage
 - ☒ 4. Continuous power output at the rated wind speed under standard operating conditions

Question ID : 4410091833698

Option 1 ID : 4410097229263

Option 2 ID : 4410097229261

Option 3 ID : 4410097229262

Option 4 ID : 4410097229260

Status : Answered

Chosen Option : 4

Q.50 Why does a vacuum cleaner require a filter in addition to a dust collection bag?

- Ans
- ☐ 1. To supply power to the motor
 - ☐ 2. To increase the speed of the motor
 - ☐ 3. To reduce noise from the motor
 - ☒ 4. To trap fine particles that pass through the bag

Question ID : 4410091798867

Option 1 ID : 4410097092589

Option 2 ID : 4410097092588

Option 3 ID : 4410097092586

Option 4 ID : 4410097092587

Status : Answered

Chosen Option : 4

Q.51 Which wiring system minimizes electromagnetic interference in a high-frequency laboratory setup?

- Ans
- ☐ 1. Surface conduit wiring with PVC pipes
 - ☐ 2. Casing and capping wiring with plastic casing
 - ☒ 3. Conduit wiring with metallic shielding
 - ☐ 4. Cleat wiring using open wires

Question ID : 4410091800686

Option 1 ID : 4410097099810

Option 2 ID : 4410097099809

Option 3 ID : 4410097099807

Option 4 ID : 4410097099808

Status : Answered

Chosen Option : 3

Q.52 Which of the following factors can increase the rate of rise of restriking voltage in a circuit breaker?

- Ans ☒ 1. High system inductance and low capacitance
☒ 2. Low system inductance and high capacitance
☒ 3. Both high capacitance and high inductance
☒ 4. Both low capacitance and low inductance

Question ID : 4410091799358

Option 1 ID : 4410097094506

Option 2 ID : 4410097094507

Option 3 ID : 4410097094508

Option 4 ID : 4410097094509

Status : Answered

Chosen Option : 4

Q.53 In a street lighting installation using steel tubular poles, the earth wire is passed through a G.I. pipe for:

- Ans ☒ 1. Increasing current carrying capacity of the earth wire
☒ 2. Mechanical protection of the earth wire
☒ 3. Reducing resistance of the earthing conductor
☒ 4. Controlling voltage supplied to the lamp

Question ID : 4410091819412

Option 1 ID : 4410097172919

Option 2 ID : 4410097172918

Option 3 ID : 4410097172920

Option 4 ID : 4410097172921

Status : Answered

Chosen Option : 2

Q.54 In transmission and distribution systems, which method combines the use of longer cross arms and increased disc spacing to enhance string efficiency?

- Ans ☒ 1. Parallel operation of conductors
☒ 2. Shortening line length
☒ 3. Improved insulator string geometry
☒ 4. Use of oil circuit breakers

Question ID : 4410091807311

Option 1 ID : 4410097125591

Option 2 ID : 4410097125592

Option 3 ID : 4410097125590

Option 4 ID : 4410097125593

Status : Answered

Chosen Option : 3

Q.55 Nickel, cobalt, and iron are grouped together because they all:

- Ans ☒ 1. Are diamagnetic
- ☒ 2. Exhibit ferromagnetic properties
- ☒ 3. Lack magnetic domains
- ☒ 4. Are paramagnetic

Question ID : 4410091807025
Option 1 ID : 4410097124571
Option 2 ID : 4410097124570
Option 3 ID : 4410097124573
Option 4 ID : 4410097124572
Status : Answered
Chosen Option : 2

Q.56 In a DC generator, the armature core is subjected to alternating the magnetic flux, resulting in eddy current and hysteresis losses. Which constructional improvement is most effective in reducing core losses?

- Ans ☒ 1. Thin insulated silicon steel laminations used for core
- ☒ 2. Use thicker copper windings for the field coils
- ☒ 3. Use solid cast iron for the armature core
- ☒ 4. Increase the cross-sectional area of the yoke

Question ID : 4410091810601
Option 1 ID : 4410097138431
Option 2 ID : 4410097138432
Option 3 ID : 4410097138429
Option 4 ID : 4410097138430
Status : Answered
Chosen Option : 1

Q.57 Which electrical fault in a small wind turbine occurs when generator windings are damaged due to overheating?

- Ans ☒ 1. Blade surface damage due to dust accumulation
- ☒ 2. Tower vibration due to strong wind turbulence
- ☒ 3. Rotor misalignment due to shaft bending
- ☒ 4. Burnt generator winding due to excessive current flow

Question ID : 4410091833705
Option 1 ID : 4410097245195
Option 2 ID : 4410097245196
Option 3 ID : 4410097245197
Option 4 ID : 4410097245194
Status : Answered
Chosen Option : 4

Q.58 In a balanced three-phase system, if $V_{RY} = 400 \angle 0^\circ \text{ V}$, what are the expected values of V_{YB} and V_{BR} assuming RYB sequence?

- Ans
- ☒ 1. $V_{YB} = 400 \angle 60^\circ \text{ V}$, $V_{BR} = 400 \angle -60^\circ \text{ V}$
 - ☒ 2. $V_{YB} = 400 \angle -120^\circ \text{ V}$, $V_{BR} = 400 \angle 120^\circ \text{ V}$
 - ☒ 3. $V_{YB} = 400 \angle 0^\circ \text{ V}$, $V_{BR} = 400 \angle -240^\circ \text{ V}$
 - ☒ 4. $V_{YB} = 400 \angle 120^\circ \text{ V}$, $V_{BR} = 400 \angle -120^\circ \text{ V}$

Question ID : 4410091823659

Option 1 ID : 4410097189343

Option 2 ID : 4410097189340

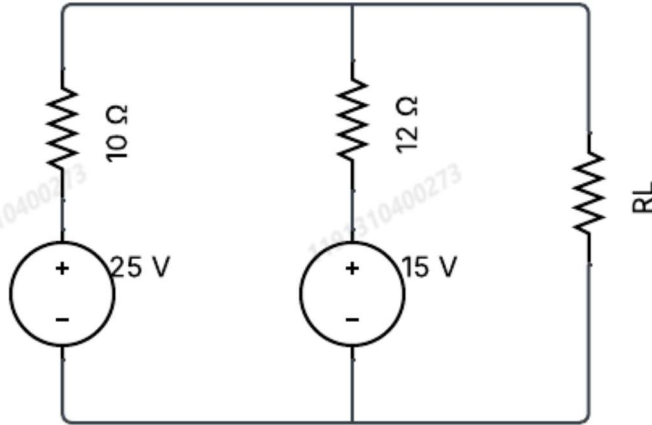
Option 3 ID : 4410097189342

Option 4 ID : 4410097189341

Status : Answered

Chosen Option : 2

Q.59 Determine the Thevenin equivalent resistance seen from the load resistance (R_L) terminals in the given circuit.



Ans

- ☒ 1. $\frac{60}{11} \Omega$
- ☐ 2. $\frac{11}{60} \Omega$
- ☐ 3. 10Ω
- ☐ 4. 22Ω

Question ID : 4410091817383

Option 1 ID : 4410097164950

Option 2 ID : 4410097164952

Option 3 ID : 4410097164951

Option 4 ID : 4410097164953

Status : Answered

Chosen Option : 4

Q.60 When measuring power in a three-phase, four-wire unbalanced system, which method is most suitable?

Ans

- ☐ 1. Three-voltmeter method
- ☐ 2. Two-wattmeter method
- ☐ 3. One-wattmeter method
- ☒ 4. Three-wattmeter method

Question ID : 4410091799953

Option 1 ID : 4410097096913

Option 2 ID : 4410097096911

Option 3 ID : 4410097096912

Option 4 ID : 4410097096910

Status : Answered

Chosen Option : 4

Q.61 During the estimation of a three-phase overhead distribution line, the number of poles required for the line is calculated using which relation?

- Ans
- ☐ 1. Number of poles = Length of the line $\times$ Span between poles
 - ☒ 2. Number of poles = Length of the line $\div$ Span between poles
 - ☐ 3. Number of poles = Length of the line + Span between poles
 - ☐ 4. Number of poles = Span between poles + Length of the line

Question ID : 4410091808133

Option 1 ID : 4410097128866

Option 2 ID : 4410097128867

Option 3 ID : 4410097128869

Option 4 ID : 4410097128868

Status : Answered

Chosen Option : 2

Q.62 If the length of a magnetic path increases, what happens to the reluctance?

- Ans
- ☒ 1. Reluctance increases
 - ☐ 2. Reluctance remains the same
 - ☐ 3. Reluctance becomes zero
 - ☐ 4. Reluctance decreases

Question ID : 4410091814113

Option 1 ID : 4410097152102

Option 2 ID : 4410097152104

Option 3 ID : 4410097152105

Option 4 ID : 4410097152103

Status : Answered

Chosen Option : 1

Q.63 Materials, fittings, and appliances used in residential electrical installation shall conform to which standard specification?

- Ans
- ☐ 1. IS 2062-2011
 - ☐ 2. IS 3043-1987
 - ☒ 3. IS 732-1983
 - ☐ 4. IS 456-2000

Question ID : 4410091819393

Option 1 ID : 4410097172849

Option 2 ID : 4410097172848

Option 3 ID : 4410097172846

Option 4 ID : 4410097172847

Status : Answered

Chosen Option : 1

Q.64 Which type of support is used for overhead line span during erection above 300 m?

- Ans ☒ 1. Lattice steel towers
- ☐ 2. Steel poles
- ☐ 3. Reinforced cement concrete poles
- ☐ 4. Wooden poles

Question ID : 4410091811571
Option 1 ID : 4410097142026
Option 2 ID : 4410097142024
Option 3 ID : 4410097142025
Option 4 ID : 4410097142023
Status : Answered
Chosen Option : 1

Q.65 A three-phase alternator is operating with a unity power factor load. The armature reaction field (f_a) produced by the armature current is related to the main field (f_m) produced by the rotor in which of the following ways?

- Ans ☐ 1. f_a leads f_m by 90 degrees
- ☐ 2. f_a opposes f_m directly
- ☐ 3. f_a is in phase with f_m
- ☒ 4. f_a is perpendicular to f_m

Question ID : 4410091805494
Option 1 ID : 4410097118636
Option 2 ID : 4410097118637
Option 3 ID : 4410097118634
Option 4 ID : 4410097118635
Status : Answered
Chosen Option : 4

Q.66 Which type of rectifier is typically used in analog voltmeters for measuring AC voltage with better sensitivity?

- Ans ☐ 1. Half wave rectifier
- ☐ 2. Schottky diode
- ☒ 3. Full wave rectifier
- ☐ 4. Zener Diode

Question ID : 4410091800009
Option 1 ID : 4410097097134
Option 2 ID : 4410097097137
Option 3 ID : 4410097097135
Option 4 ID : 4410097097136
Status : Answered
Chosen Option : 3

Q.67 If the distance between the centers of the cores in a 3-core underground cable increases, what is the effect on the capacitance between any two cores?

- Ans** ☒ 1. The capacitance decreases
☐ 2. The capacitance remains unchanged
☐ 3. The capacitance increases
☐ 4. The capacitance becomes zero

Question ID : 4410091811239
Option 1 ID : 4410097141005
Option 2 ID : 4410097141007
Option 3 ID : 4410097141006
Option 4 ID : 4410097141008
Status : Answered
Chosen Option : 1

Q.68 In a permit-to-work system for electrical maintenance, what must be attached to the mains and control points to indicate that equipment is under maintenance?

- Ans** ☐ 1. Identification labels
☐ 2. Equipment rating plates
☒ 3. Danger notice plates
☐ 4. Name plates

Question ID : 4410091808169
Option 1 ID : 4410097129019
Option 2 ID : 4410097129020
Option 3 ID : 4410097129018
Option 4 ID : 4410097129021
Status : Answered
Chosen Option : 3

Q.69 Which of the following is NOT a requirement for using Fleming's right hand rule?

- Ans** ☒ 1. Conductor must be stationary
☐ 2. Presence of magnetic field
☐ 3. Conductor cuts magnetic lines perpendicularly
☐ 4. Conductor in motion

Question ID : 4410091813123
Option 1 ID : 4410097148154
Option 2 ID : 4410097148155
Option 3 ID : 4410097148157
Option 4 ID : 4410097148156
Status : Answered
Chosen Option : 1

Q.70 Which constructional feature enables a hydro turbine to handle significant fluctuations in water flow while maintaining efficiency?

- Ans
- ☐ 1. Spiral casing in a Francis turbine
 - ☐ 2. Multiple jets in a Pelton turbine
 - ☐ 3. Fixed guide vanes in a Francis turbine
 - ☒ 4. Adjustable runner blades in a Kaplan turbine

Question ID : 4410091808742
Option 1 ID : 4410097131274
Option 2 ID : 4410097131275
Option 3 ID : 4410097131276
Option 4 ID : 4410097131273
Status : Answered
Chosen Option : 4

Q.71 What happens to the Fermi level when a pure semiconductor is doped with a donor impurity?

- Ans
- ☐ 1. The Fermi level remains unchanged.
 - ☐ 2. The Fermi level moves outside the band gap.
 - ☒ 3. The Fermi level shifts closer to the conduction band.
 - ☐ 4. The Fermi level shifts closer to the valence band.

Question ID : 4410091807055
Option 1 ID : 4410097124692
Option 2 ID : 4410097124693
Option 3 ID : 4410097124690
Option 4 ID : 4410097124691
Status : Answered
Chosen Option : 3

Q.72 Which condition is necessary for applying a delta-to-star (Δ -Y) transformation in circuit analysis?

- Ans
- ☐ 1. The network contains three elements connected at a single node
 - ☐ 2. The network has only parallel resistors
 - ☒ 3. The network contains three elements connected in a closed loop
 - ☐ 4. The network is open with no closed loops

Question ID : 4410091811403
Option 1 ID : 4410097141484
Option 2 ID : 4410097141486
Option 3 ID : 4410097141483
Option 4 ID : 4410097141485
Status : Answered
Chosen Option : 3

Q.73 Which component in a solar Photovoltaic (PV) system adjusts the operating point of the solar panel to extract more power as sunlight intensity changes?

- Ans ☒ 1. Inverter
- ☒ 2. Charge controller
- ☒ 3. Bypass diode
- ☒ 4. Maximum Power Point Tracker (MPPT)

Question ID : 4410091801273
 Option 1 ID : 4410097102094
 Option 2 ID : 4410097102093
 Option 3 ID : 4410097102091
 Option 4 ID : 4410097102092
 Status : Answered
 Chosen Option : 4

Q.74 During a grid fault, what type of current do wind power plants with power electronic converters inject to support voltage?

- Ans ☒ 1. Harmonic current to compensate for voltage distortion in the grid
- ☒ 2. Direct current to energise the transmission line during voltage sag
- ☒ 3. Active current at rated frequency to restore grid power
- ☒ 4. Reactive current to provide transient voltage support at the fault point

Question ID : 4410091833644
 Option 1 ID : 4410097228554
 Option 2 ID : 4410097228555
 Option 3 ID : 4410097228552
 Option 4 ID : 4410097228553
 Status : Answered
 Chosen Option : 3

Q.75 Which property makes nickel or iron suitable for electrodes in a neon discharge lamp?

- Ans ☒ 1. Ability to withstand ion bombardment
- ☒ 2. Ability to produce thermal radiation
- ☒ 3. Very high electrical resistivity
- ☒ 4. High optical transparency

Question ID : 4410091824105
 Option 1 ID : 4410097191205
 Option 2 ID : 4410097191207
 Option 3 ID : 4410097191206
 Option 4 ID : 4410097191204
 Status : Answered
 Chosen Option : 3

Q.76 As per the Bureau of Indian Standards (BIS), what is the minimum recommended distance of an earth electrode from a building foundation?

- Ans ☒ 1. 2.5 metres
☒ 2. 1.5 metres
☒ 3. 4.5 metres
☒ 4. 3.5 metres

Question ID : 4410091800687
Option 1 ID : 4410097099812
Option 2 ID : 4410097099811
Option 3 ID : 4410097099814
Option 4 ID : 4410097099813
Status : Answered
Chosen Option : 1

Q.77 Which component is essential for implementing differential protection in a transformer?

- Ans ☒ 1. Voltage regulator fitted on the transformer
☒ 2. Surge arresters connected to the transformer terminals
☒ 3. Current transformers installed on both sides of the transformer
☒ 4. Cooling fans attached to the transformer body

Question ID : 4410091891397
Option 1 ID : 4410097451762
Option 2 ID : 4410097451760
Option 3 ID : 4410097451759
Option 4 ID : 4410097451761
Status : Answered
Chosen Option : 3

Q.78 In a three-phase motor installation, which device provides control and protection during motor starting?

- Ans ☒ 1. ICTP switch
☒ 2. Energy meter
☒ 3. Motor starter
☒ 4. Bus-bar chamber

Question ID : 4410091819360
Option 1 ID : 4410097172717
Option 2 ID : 4410097172715
Option 3 ID : 4410097172714
Option 4 ID : 4410097172716
Status : Answered
Chosen Option : 3

Q.79 Which measure is used to prevent electric shock when installing electrical equipment in a damp environment?

- Ans ☒ 1. Placing equipment near a window
- ☒ 2. Using ground fault circuit interrupters for all outlets
- ☒ 3. Painting the walls with waterproof paint
- ☒ 4. Keeping the floor dry with a mat

Question ID : 4410091800585
Option 1 ID : 4410097099411
Option 2 ID : 4410097099412
Option 3 ID : 4410097099413
Option 4 ID : 4410097099414
Status : Answered
Chosen Option : 2

Q.80 Which of the following materials is considered a high resistivity material?

- Ans ☒ 1. Copper
- ☒ 2. Silver
- ☒ 3. Aluminum
- ☒ 4. Nichrome

Question ID : 4410091802229
Option 1 ID : 4410097105858
Option 2 ID : 4410097105859
Option 3 ID : 4410097105860
Option 4 ID : 4410097105857
Status : Answered
Chosen Option : 4

Section : Part B Knowledge regarding CIL SECL State

Q.1 What (approximate) quantity of coal did South Eastern Coalfields Limited produce in FY 2025–26?

- Ans ☒ 1. 176.2 million tonnes
- ☒ 2. 188.6 million tonnes
- ☒ 3. 164.8 million tonnes
- ☒ 4. 192.4 million tonnes

Question ID : 4410091874949
Option 1 ID : 4410097387358
Option 2 ID : 4410097387359
Option 3 ID : 4410097387357
Option 4 ID : 4410097387360
Status : Answered
Chosen Option : 1

Q.2 What is the nature of the Legislature in Madhya Pradesh?

- Ans ☒ 1. Tricameral
☒ 2. Unicameral
☒ 3. Polycameral
☒ 4. Bicameral

Question ID : 4410091875073

Option 1 ID : 4410097387891

Option 2 ID : 4410097387890

Option 3 ID : 4410097387892

Option 4 ID : 4410097387889

Status : Answered

Chosen Option : 2

Q.3 As of 31 March 2026, which flagship CSR initiative of Coal India Limited provides financial assistance for bone marrow transplants to children from underprivileged backgrounds?

- Ans ☒ 1. Coal India Limited – Project Naadan Buddha
☒ 2. Coal India Limited – Thalassemia Bal Seva Yojana
☒ 3. Coal India Limited – Project Nanha Sa Dil
☒ 4. Coal India Limited – Coal India Lok Sewa Protsahan Yojana

Question ID : 4410091874571

Option 1 ID : 4410097385784

Option 2 ID : 4410097385782

Option 3 ID : 4410097385781

Option 4 ID : 4410097385783

Status : Answered

Chosen Option : 2

Q.4 Which prestigious international award did Coal India Limited receive in London in late 2024 for its 'Thalassemia Bal Seva Yojana'?

- Ans ☒ 1. UN Sustainable Development Award
☒ 2. Green World Environment Award
☒ 3. World Mining Safety Award
☒ 4. Global CSR Excellence Award

Question ID : 4410091859818

Option 1 ID : 4410097329828

Option 2 ID : 4410097329827

Option 3 ID : 4410097329829

Option 4 ID : 4410097329826

Status : Answered

Chosen Option : 2

Q.5 The Talcher Coalfields are a part of which major coal company?

- Ans ☒ 1. Mahanadi Coalfields Limited (MCL)
- ☐ 2. Western Coalfields Limited (WCL)
- ☐ 3. Eastern Coalfields Limited (ECL)
- ☐ 4. Bharat Coking Coal Limited (BCCL)

Question ID : 4410091874634
Option 1 ID : 4410097386079
Option 2 ID : 4410097386078
Option 3 ID : 4410097386077
Option 4 ID : 4410097386080
Status : Answered
Chosen Option : 1

Q.6 Which state contributed 41.89% of India's soyabean production in 2023-24, as per the Economic Survey of India 2024-25?

- Ans ☐ 1. Punjab
- ☒ 2. Madhya Pradesh
- ☐ 3. Rajasthan
- ☐ 4. Karnataka

Question ID : 4410091450031
Option 1 ID : 4410095728627
Option 2 ID : 4410095728626
Option 3 ID : 4410095728625
Option 4 ID : 4410095728624
Status : Answered
Chosen Option : 2

Q.7 What is the nature of the Chhattisgarh Legislative Assembly (Vidhan Sabha)?

- Ans ☒ 1. Unicameral (One House)
- ☐ 2. Multicameral
- ☐ 3. Bicameral (Two Houses)
- ☐ 4. Nominated only

Question ID : 4410091877409
Option 1 ID : 4410097396745
Option 2 ID : 4410097396746
Option 3 ID : 4410097396744
Option 4 ID : 4410097396747
Status : Answered
Chosen Option : 1

Q.8 According to the geographic profile of Chhattisgarh, what is the specific type of climate that characterizes the state?

- Ans**
- ☒ 1. Semi-arid Mediterranean climate
 - ☒ 2. Temperate maritime alpine climate
 - ☒ 3. Cold and dry desert climate
 - ☒ 4. Hot and humid monsoon climate

Question ID : 4410091877340

Option 1 ID : 4410097396478

Option 2 ID : 4410097396479

Option 3 ID : 4410097396476

Option 4 ID : 4410097396477

Status : Answered

Chosen Option : 4

Q.9 As of April 1, 2026, across how many Indian states are the operations of Coal India Limited spread?

- Ans**
- ☒ 1. Eight states
 - ☒ 2. Seven states
 - ☒ 3. Nine states
 - ☒ 4. Six states

Question ID : 4410091859871

Option 1 ID : 4410097330040

Option 2 ID : 4410097330039

Option 3 ID : 4410097330041

Option 4 ID : 4410097330038

Status : Answered

Chosen Option : 1

Q.10 Which revolutionary leader from Madhya Pradesh was the Commander-in-Chief of the Hindustan Socialist Republican Association (HSRA)?

- Ans**
- ☒ 1. Tatya Tope
 - ☒ 2. Raja Shankar Shah
 - ☒ 3. Kunwar Chain Singh
 - ☒ 4. Chandra Shekhar Azad

Question ID : 4410091875152

Option 1 ID : 4410097388081

Option 2 ID : 4410097388084

Option 3 ID : 4410097388083

Option 4 ID : 4410097388082

Status : Answered

Chosen Option : 4

Section : Part B General Awareness

Q.1 A shopkeeper purchased 80 pens for ₹1,200. He sold 60% of them at a 20% gain, and the rest, at a 10% loss. Find his overall profit or loss percentage on the whole transaction.

Ans ☒ 1. 8% profit

☐ 2. 4% profit

☐ 3. 1% loss

☐ 4. 2% loss

Question ID : 4410091495384
Option 1 ID : 4410095906866
Option 2 ID : 4410095906865
Option 3 ID : 4410095906867
Option 4 ID : 4410095906868
Status : Answered
Chosen Option : 1

Q.2 The office of the Attorney General for India is established by which Article of the Constitution?

Ans ☐ 1. Article 74

☒ 2. Article 76

☐ 3. Article 148

☐ 4. Article 88

Question ID : 4410091536217
Option 1 ID : 4410096068088
Option 2 ID : 4410096068087
Option 3 ID : 4410096068090
Option 4 ID : 4410096068089
Status : Answered
Chosen Option : 3

Q.3 Select the triad which follows the same pattern as that followed by the two triads given below. Both triads follow the same pattern.

AC - TV - OQ
GI - ZB - UW

Ans ☒ 1. HJ - AC - VX

☐ 2. JD - KS - UI

☐ 3. NF - JA - ER

☐ 4. GC - IS - TF

Question ID : 4410091357506
Option 1 ID : 4410095362191
Option 2 ID : 4410095362192
Option 3 ID : 4410095362194
Option 4 ID : 4410095362193
Status : Answered
Chosen Option : 1

Q.4 An accurate clock shows 9:06 pm. By how many degrees will the minute hand rotate when the clock shows 9:35 pm?

Ans ☒ 1. 174°

☐ 2. 168°

☐ 3. 188°

☐ 4. 182°

Question ID : 441009346383

Option 1 ID : 4410091351599

Option 2 ID : 4410091351598

Option 3 ID : 4410091351600

Option 4 ID : 4410091351597

Status : Answered

Chosen Option : 1

Q.5 The average score of a class of boys and girls in an examination is S. The ratio of boys and girls in the class is 5 : 4. If the average score of the boys is (S + 3), the average score of the girls is:

Ans ☐ 1. $4S - 15$

☐ 2. $4S - 12$

☐ 3. $\frac{4S + 15}{4}$

☒ 4. $\frac{4S - 15}{4}$

Question ID : 4410091812063

Option 1 ID : 4410097143922

Option 2 ID : 4410097143923

Option 3 ID : 4410097143925

Option 4 ID : 4410097143924

Status : Answered

Chosen Option : 4

Q.6 This question is based on the following words

FAN EBB CRY HIT

How many letters are there between first letter of second word from the right and second letter of first word from the left as per English alphabetical order?

4735

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

Question ID : 441009790839
Option 1 ID : 4410093117356
Option 2 ID : 4410093117357
Option 3 ID : 4410093117355
Option 4 ID : 4410093117358
Status : Answered
Chosen Option : 3

Q.7 Which Indian cricketer was named the world's leading male cricketer in the 2025 edition of the Wisden Cricketers' Almanack?

- Ans
- ☒ 1. Jasprit Bumrah
 - ☒ 2. Rohit Sharma
 - ☒ 3. Virat Kohli
 - ☒ 4. Ravindra Jadeja

Question ID : 441009261888
Option 1 ID : 4410091020345
Option 2 ID : 4410091020344
Option 3 ID : 4410091020343
Option 4 ID : 4410091020346
Status : Answered
Chosen Option : 1

Q.8 Gandhi Sagar Dam is constructed on which of the following rivers?

- Ans
- ☒ 1. Chambal
 - ☒ 2. Sabarmati
 - ☒ 3. Son
 - ☒ 4. Narmada

Question ID : 4410091537722
Option 1 ID : 4410096074149
Option 2 ID : 4410096074150
Option 3 ID : 4410096074147
Option 4 ID : 4410096074148
Status : Answered
Chosen Option : 1

Q.9 Mr. Tosi starts from Point A and drives 14 km towards North. He then takes a right turn, drives 25 km, turns right and drives 23 km. He then takes a right turn and drives 30 km. He takes a final right turn, drives 9 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90-degree turns only unless specified.)

- Ans**
- ☐ 1. 4 km to the North
 - ☐ 2. 3 km to the South
 - ☒ 3. 5 km to the East
 - ☐ 4. 2 km to the West

Question ID : 4410091198436
Option 1 ID : 4410094727633
Option 2 ID : 4410094727632
Option 3 ID : 4410094727634
Option 4 ID : 4410094727631
Status : Answered
Chosen Option : 3

Q.10 In how much time will ₹10,000 amount to ₹14,641 at 10% compound interest per annum, compounded annually?

- Ans**
- ☐ 1. 4.5 years
 - ☐ 2. 2 years
 - ☒ 3. 4 years
 - ☐ 4. 2.5 years

Question ID : 4410091107693
Option 1 ID : 4410094367769
Option 2 ID : 4410094367766
Option 3 ID : 4410094367768
Option 4 ID : 4410094367767
Status : Answered
Chosen Option : 3