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OMCL Electrician

Previous Year Paper
02 Feb, 2024





Odisha Mining Corporation Ltd.
A Gold Category State PSU

Participant ID	
Participant Name	
Test Center Name	
Test Date	02/02/2024
Test Time	8:30 AM - 10:30 AM
Subject	Electrician III

Section : Core Subject

Q.1 Which class of fire extinguisher should be used for electrical fires?

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

Question ID : 630680588076
Option 1 ID : 6306802300842
Option 2 ID : 6306802300839
Option 3 ID : 6306802300841
Option 4 ID : 6306802300840
Status : Answered
Chosen Option : 3

Q.2 Which law of illumination states that the illuminance on a surface is directly proportional to the luminous flux and inversely proportional to the square of the distance from the light source?

- Ans ☒ 1. Snell's Law
☒ 2. The Inverse Square Law
☒ 3. Lambert's Cosine Law
☒ 4. The Law of Reflection

Question ID : 630680588119
Option 1 ID : 6306802301012
Option 2 ID : 6306802301013
Option 3 ID : 6306802301011
Option 4 ID : 6306802301014
Status : Answered
Chosen Option : 2

Q.3 What does an MCB (Miniature Circuit Breaker) do in a domestic circuit?

- Ans ☒ 1. It breaks the circuit during an overload or short circuit by mechanically separating contacts.
- ☒ 2. It increases current capacity for heavy appliances.
- ☒ 3. It breaks the circuit during an overload or short circuit by melting a wire inside it.
- ☒ 4. It indicates the power consumption by each appliance.

Question ID : 630680588132
Option 1 ID : 6306802301066
Option 2 ID : 6306802301063
Option 3 ID : 6306802301064
Option 4 ID : 6306802301065
Status : Answered
Chosen Option : 1

Q.4 Which type of alternator is used primarily for automotive applications?

- Ans ☒ 1. Radio alternator
- ☒ 2. Asynchronous alternator
- ☒ 3. Induction alternator
- ☒ 4. Synchronous alternator

Question ID : 630680588112
Option 1 ID : 6306802300985
Option 2 ID : 6306802300983
Option 3 ID : 6306802300984
Option 4 ID : 6306802300986
Status : Answered
Chosen Option : 3

Q.5 What is the basic principle behind electroplating?

- Ans ☒ 1. To coat the surface of a metal with a thin layer of a different metal by electrolysis
- ☒ 2. To purify metals
- ☒ 3. To increase the weight of the metal object
- ☒ 4. To create an electrical insulation layer

Question ID : 630680588090
Option 1 ID : 6306802300896
Option 2 ID : 6306802300897
Option 3 ID : 6306802300898
Option 4 ID : 6306802300895
Status : Answered
Chosen Option : 1

Q.6 What is a characteristic feature of a squirrel cage induction motor?

- Ans ☒ 1. It requires a separate DC power supply for the rotor winding.
- ☒ 2. It uses a cage-like rotor for high durability and low maintenance.
- ☒ 3. It has a rotor winding connected through slip rings.
- ☒ 4. It has adjustable rotor resistance for speed control.

Question ID : 630680588125
Option 1 ID : 6306802301038
Option 2 ID : 6306802301036
Option 3 ID : 6306802301037
Option 4 ID : 6306802301035
Status : Answered
Chosen Option : 2

Q.7 A passive filter connected to the output of a rectifier is used to:

- Ans ☒ 1. Control the frequency of the output waveform.
☒ 2. Reduce the ripple voltage in the rectified output.
☐ 3. Increase the output voltage.
☐ 4. Convert DC to AC.

Question ID : 630680588128
Option 1 ID : 6306802301050
Option 2 ID : 6306802301047
Option 3 ID : 6306802301049
Option 4 ID : 6306802301048
Status : Answered
Chosen Option : 2

Q.8 A wattmeter is used to measure:

- Ans ☒ 1. Instantaneous electrical power in a circuit
☐ 2. Energy consumption over time
☐ 3. The power factor of the load
☐ 4. The frequency of the AC supply

Question ID : 630680588116
Option 1 ID : 6306802301000
Option 2 ID : 6306802301001
Option 3 ID : 6306802300999
Option 4 ID : 6306802301002
Status : Answered
Chosen Option : 1

Q.9 Which type of transistor has a gate terminal?

- A. Bipolar Junction Transistor (BJT)
B. Field-Effect Transistor (FET)
C. Junction Field-Effect Transistor (JFET)

- Ans ☒ 1. Both B and C
☐ 2. A, B and C
☐ 3. Both A and B
☐ 4. Both A and C

Question ID : 630680588129
Option 1 ID : 6306802301054
Option 2 ID : 6306802301052
Option 3 ID : 6306802301051
Option 4 ID : 6306802301053
Status : Answered
Chosen Option : 2

Q.10 What is the advantage of using a clamp meter to measure current?

- Ans ☐ 1. It requires the circuit to be opened to insert the meter
☐ 2. It provides less accurate readings compared to an ammeter
☒ 3. It can measure current without making physical contact with the conductor
☐ 4. It can only measure DC currents

Question ID : 630680588117
Option 1 ID : 6306802301004
Option 2 ID : 6306802301003
Option 3 ID : 6306802301006
Option 4 ID : 6306802301005
Status : Answered
Chosen Option : 3

Q.11 In electrical wiring, what is the purpose of the color coding of wires?

- Ans ☒ 1. To identify the different functions of the wires
- ☐ 2. To indicate the voltage level
- ☐ 3. Aesthetic purposes
- ☐ 4. To indicate the manufacturer

Question ID : 630680588087
Option 1 ID : 6306802300886
Option 2 ID : 6306802300883
Option 3 ID : 6306802300884
Option 4 ID : 6306802300885
Status : Answered
Chosen Option : 1

Q.12 What distinguishes a slip ring induction motor from a squirrel cage induction motor?

- Ans ☐ 1. A slip ring motor is less efficient due to its design.
- ☒ 2. A slip ring motor uses brushes and slip rings to supply current to the rotor.
- ☐ 3. A slip ring motor has a higher starting torque with a capacitor.
- ☐ 4. Slip ring motors do not allow for speed control.

Question ID : 630680588126
Option 1 ID : 6306802301040
Option 2 ID : 6306802301042
Option 3 ID : 6306802301039
Option 4 ID : 6306802301041
Status : Answered
Chosen Option : 3

Q.13 Which type of DC motor is typically used when a variable speed is required?

- Ans ☐ 1. Compound-wound DC motor
- ☐ 2. Series-wound DC motor
- ☐ 3. Permanent magnet DC motor
- ☒ 4. Shunt-wound DC motor

Question ID : 630680588097
Option 1 ID : 6306802300926
Option 2 ID : 6306802300924
Option 3 ID : 6306802300923
Option 4 ID : 6306802300925
Status : Answered
Chosen Option : 1

Q.14 A characteristic of lead acid cells is:

- Ans ☐ 1. They can be charged only once
- ☒ 2. They use a liquid electrolyte and are typically used in automotive batteries
- ☐ 3. They have no memory effect
- ☐ 4. They are the lightest type of rechargeable battery

Question ID : 630680588091
Option 1 ID : 6306802300901
Option 2 ID : 6306802300899
Option 3 ID : 6306802300902
Option 4 ID : 6306802300900
Status : Answered
Chosen Option : 2

Q.15 In the pipe earthing system, what is primarily used as the earth electrode?

- Ans ☒ 1. A galvanized steel pipe
- ☐ 2. A plastic rod
- ☐ 3. A copper wire
- ☐ 4. A wooden stake

Question ID : 630680588100
Option 1 ID : 6306802300938
Option 2 ID : 6306802300937
Option 3 ID : 6306802300935
Option 4 ID : 6306802300936
Status : Answered
Chosen Option : 1

Q.16 Which type of resistor allows for a change in resistance by sliding a wiper across a resistive element?

- Ans ☐ 1. Thermistor
- ☒ 2. Potentiometer
- ☐ 3. Varistor
- ☐ 4. Fixed resistor

Question ID : 630680588082
Option 1 ID : 6306802300866
Option 2 ID : 6306802300864
Option 3 ID : 6306802300865
Option 4 ID : 6306802300863
Status : Answered
Chosen Option : 3

Q.17 What is the primary purpose of flux in soldering?

- Ans ☐ 1. To act as a filler material
- ☒ 2. To clean and prepare the metal surfaces for soldering
- ☐ 3. To increase the solder's melting point
- ☐ 4. To cool down the solder faster

Question ID : 630680588084
Option 1 ID : 6306802300874
Option 2 ID : 6306802300873
Option 3 ID : 6306802300871
Option 4 ID : 6306802300872
Status : Answered
Chosen Option : 2

Q.18 In a closed circuit with three resistors of 2, 3, and 5 ohms, and a voltage supply of 10V, what is the voltage drop across the 3-ohm resistor according to Kirchhoff's Voltage Law (KVL)?

- Ans ☐ 1. 10 V
- ☒ 2. 3 V
- ☐ 3. 5 V
- ☐ 4. 2 V

Question ID : 630680588083
Option 1 ID : 6306802300869
Option 2 ID : 6306802300870
Option 3 ID : 6306802300868
Option 4 ID : 6306802300867
Status : Answered
Chosen Option : 2

Q.19 A light bulb is rated at 1500 lumens. If it's installed in a fixture with a 50% efficiency rating, how many lumens will actually be emitted?

- Ans
- ☒ 1. 1500 lumens
 - ☒ 2. 750 lumens
 - ☒ 3. 3000 lumens
 - ☒ 4. 1000 lumens

Question ID : 630680588122
Option 1 ID : 6306802301025
Option 2 ID : 6306802301023
Option 3 ID : 6306802301026
Option 4 ID : 6306802301024
Status : Not Answered
Chosen Option : --

Q.20 Which material is commonly used as an electrical conductor due to its high conductivity and ductility?

- Ans
- ☒ 1. Copper
 - ☒ 2. Rubber
 - ☒ 3. Porcelain
 - ☒ 4. Glass

Question ID : 630680588086
Option 1 ID : 6306802300880
Option 2 ID : 6306802300881
Option 3 ID : 6306802300882
Option 4 ID : 6306802300879
Status : Answered
Chosen Option : 1

Q.21 What distinguishes an auto transformer from a two-winding transformer?

- Ans
- ☒ 1. The auto transformer has three windings while the two-winding transformer has two.
 - ☒ 2. The auto transformer has a single winding that acts as both the primary and secondary winding.
 - ☒ 3. The auto transformer operates on DC while the two-winding transformer operates on AC.
 - ☒ 4. The auto transformer cannot step-up voltage.

Question ID : 630680588111
Option 1 ID : 6306802300980
Option 2 ID : 6306802300979
Option 3 ID : 6306802300981
Option 4 ID : 6306802300982
Status : Answered
Chosen Option : 2

Q.22 In an AC circuit, if the impedance Z is represented as $Z=4+3j$, what is the reactance of the circuit?

- Ans ☒ 1. 3 units
☐ 2. 7 units
☐ 3. 4 units
☐ 4. 5 units

Question ID : 630680588104
Option 1 ID : 6306802300954
Option 2 ID : 6306802300952
Option 3 ID : 6306802300951
Option 4 ID : 6306802300953
Status : Answered
Chosen Option : 1

Q.23 What is the first step in hazard identification and avoidance?

- Ans ☐ 1. Increasing the hazards in the environment
☐ 2. Ignoring potential risks
☐ 3. Waiting for an accident to happen
☒ 4. Identifying potential sources of danger

Question ID : 630680588075
Option 1 ID : 6306802300835
Option 2 ID : 6306802300837
Option 3 ID : 6306802300838
Option 4 ID : 6306802300836
Status : Answered
Chosen Option : 2

Q.24 Which core construction is typically used in a single-phase transformer?

- Ans ☐ 1. Berry type
☐ 2. Air core
☐ 3. Toroidal
☒ 4. Shell type

Question ID : 630680588108
Option 1 ID : 6306802300967
Option 2 ID : 6306802300969
Option 3 ID : 6306802300968
Option 4 ID : 6306802300970
Status : Answered
Chosen Option : 2

Q.25 Faraday's first law of electrolysis states that:

- Ans ☐ 1. The amount of chemical change is proportional to the magnetic field.
☐ 2. The amount of chemical change is independent of the current passed.
☒ 3. The amount of substance deposited at an electrode is proportional to the amount of current passed.
☐ 4. The amount of substance deposited at an electrode is proportional to the time the current flows.

Question ID : 630680588089
Option 1 ID : 6306802300892
Option 2 ID : 6306802300894
Option 3 ID : 6306802300893
Option 4 ID : 6306802300891
Status : Answered
Chosen Option : 3

Q.26 The EMF equation of an alternator can be represented as $E = 4.44 \cdot f \cdot N \cdot \Phi$. What does ' Φ ' represent in this equation?

- Ans
- ☐ 1. Frequency of the alternator
 - ☐ 2. Number of turns in the winding
 - ☒ 3. Maximum flux per pole
 - ☐ 4. Efficiency of the alternator

Question ID : 630680588113
Option 1 ID : 6306802300988
Option 2 ID : 6306802300987
Option 3 ID : 6306802300989
Option 4 ID : 6306802300990
Status : Answered
Chosen Option : 3

Q.27 If a solenoid has 200 turns and a current of 0.5 A flowing through it, what is the magnetomotive force (MMF)?

- Ans
- ☒ 1. 100 Ampere-turns
 - ☐ 2. 10 Ampere-turns
 - ☐ 3. 400 Ampere-turns
 - ☐ 4. 200 Ampere-turns

Question ID : 630680588095
Option 1 ID : 6306802300915
Option 2 ID : 6306802300916
Option 3 ID : 6306802300918
Option 4 ID : 6306802300917
Status : Answered
Chosen Option : 1

Q.28 Voltage regulation in an alternator is defined as the change in voltage from:

- Ans
- ☐ 1. Half load to full load at a constant frequency.
 - ☐ 2. Full load to no load at a constant temperature.
 - ☒ 3. No load to full load at a constant speed.
 - ☐ 4. No load to half load at varying speed.

Question ID : 630680588114
Option 1 ID : 6306802300993
Option 2 ID : 6306802300991
Option 3 ID : 6306802300994
Option 4 ID : 6306802300992
Status : Answered
Chosen Option : 3

Q.29 What does an Earth Leakage Circuit Breaker (ELCB) do?

- Ans
- ☐ 1. It measures the earth resistance
 - ☐ 2. It breaks the circuit when the system is overloaded
 - ☐ 3. It prevents earth resistance from changing
 - ☒ 4. It trips the circuit when it detects earth leakage current

Question ID : 630680588102
Option 1 ID : 6306802300945
Option 2 ID : 6306802300943
Option 3 ID : 6306802300946
Option 4 ID : 6306802300944
Status : Answered
Chosen Option : 4

Q.30 In which bias condition does a diode conduct electricity?

- Ans
- ☒ 1. Both forward and reverse bias
 - ☒ 2. Reverse bias
 - ☒ 3. Forward bias
 - ☒ 4. Neither forward nor reverse bias

Question ID : 630680588127
Option 1 ID : 6306802301045
Option 2 ID : 6306802301043
Option 3 ID : 6306802301044
Option 4 ID : 6306802301046
Status : Answered
Chosen Option : 3

Q.31 During the synchronization of an alternator, which method is often used to match the alternator's voltage, frequency, and phase with the busbar?

- Ans
- ☒ 1. Phase lock loop method
 - ☒ 2. Synchroscope method
 - ☒ 3. Dark lamp method
 - ☒ 4. Bright lamp method

Question ID : 630680588115
Option 1 ID : 6306802300996
Option 2 ID : 6306802300995
Option 3 ID : 6306802300997
Option 4 ID : 6306802300998
Status : Answered
Chosen Option : 2

Q.32 According to Indian Electricity (IE) Rules, what is an essential requirement for electrical wiring in residential installations?

- Ans
- ☒ 1. The installation must provide adequate earthing.
 - ☒ 2. The provision of a dedicated circuit for each appliance.
 - ☒ 3. The use of colored wires for aesthetic coherence.
 - ☒ 4. The wiring must be visible at all times for easy maintenance.

Question ID : 630680588131
Option 1 ID : 6306802301059
Option 2 ID : 6306802301061
Option 3 ID : 6306802301060
Option 4 ID : 6306802301062
Status : Answered
Chosen Option : 1

Q.33 In a DC motor, torque is directly proportional to:

- Ans
- ☒ 1. Speed
 - ☒ 2. The resistance of the armature winding
 - ☒ 3. The product of the armature current and the strength of the magnetic field
 - ☒ 4. Back-EMF

Question ID : 630680588096
Option 1 ID : 6306802300921
Option 2 ID : 6306802300920
Option 3 ID : 6306802300919
Option 4 ID : 6306802300922
Status : Answered
Chosen Option : 3

Q.34 Which method of magnetizing a piece of iron is typically done by placing it inside a coil carrying an electric current?

- Ans ☒ 1. Electromagnetic induction
- ☐ 2. Stroking with another magnet
- ☐ 3. Hammering
- ☐ 4. Heating

Question ID : 630680588092
Option 1 ID : 6306802300906
Option 2 ID : 6306802300904
Option 3 ID : 6306802300905
Option 4 ID : 6306802300903
Status : Answered
Chosen Option : 1

Q.35 Which factor does not affect the level of illumination of a surface?

- Ans ☒ 1. Sound intensity in the environment
- ☐ 2. Angle of incidence of the light
- ☐ 3. Color of the surface
- ☐ 4. Distance from the light source

Question ID : 630680588120
Option 1 ID : 6306802301016
Option 2 ID : 6306802301015
Option 3 ID : 6306802301018
Option 4 ID : 6306802301017
Status : Answered
Chosen Option : 1

Q.36 Casing and capping wiring is characterized by:

- Ans ☐ 1. The use of armored cables throughout the installation.
- ☐ 2. Wires being run through PVC casing and capped with metal.
- ☒ 3. Wires being laid in wooden casings with a capping on top.
- ☐ 4. Concealing the wiring within the concrete slabs.

Question ID : 630680588130
Option 1 ID : 6306802301056
Option 2 ID : 6306802301055
Option 3 ID : 6306802301058
Option 4 ID : 6306802301057
Status : Answered
Chosen Option : 2

Q.37 Back-EMF in a DC motor:

- Ans ☐ 1. Increases with an increase in speed
- ☒ 2. Is the voltage that opposes the change in current that created it
- ☐ 3. Is directly proportional to the torque
- ☐ 4. Is independent of the magnetic field

Question ID : 630680588098
Option 1 ID : 6306802300928
Option 2 ID : 6306802300927
Option 3 ID : 6306802300929
Option 4 ID : 6306802300930
Status : Answered
Chosen Option : 1

Q.38 An insulation tester is used to measure:

- Ans
- ☐ 1. The voltage supplied to an installation
 - ☐ 2. The continuity of a cable
 - ☒ 3. The insulation resistance of an electrical installation
 - ☐ 4. The amount of current leaking through insulation

Question ID : 630680588118
Option 1 ID : 6306802301010
Option 2 ID : 6306802301008
Option 3 ID : 6306802301007
Option 4 ID : 6306802301009
Status : Answered
Chosen Option : 3

Q.39 Which type of clamp is typically used for woodworking to hold pieces together tightly to prevent movement or separation?

- I) Hose Clamp
- II) Bar Clamp
- III) C-Clamp

- Ans
- ☒ 1. II & III Only
 - ☐ 2. I & II Only
 - ☐ 3. I, II & III
 - ☐ 4. I & III Only

Question ID : 630680588079
Option 1 ID : 6306802300853
Option 2 ID : 6306802300851
Option 3 ID : 6306802300854
Option 4 ID : 6306802300852
Status : Not Answered
Chosen Option : --

Q.40 What is the purpose of using an earth tester?

- Ans
- ☐ 1. To measure the current flowing through the earth
 - ☐ 2. To measure the voltage of the earth
 - ☐ 3. To measure the insulation resistance of devices
 - ☒ 4. To measure the earth resistance of an earthing system

Question ID : 630680588103
Option 1 ID : 6306802300950
Option 2 ID : 6306802300948
Option 3 ID : 6306802300949
Option 4 ID : 6306802300947
Status : Answered
Chosen Option : 4

Q.41 Which type of bolt head is typically used where a smooth surface is required?

- Ans
- ☐ 1. Anchor bolt
 - ☐ 2. J-bolt
 - ☐ 3. Hex bolt
 - ☒ 4. Carriage bolt

Question ID : 630680588078
Option 1 ID : 6306802300848
Option 2 ID : 6306802300847
Option 3 ID : 6306802300849
Option 4 ID : 6306802300850
Status : Not Answered
Chosen Option : --

Q.42 Personal Protective Equipment (PPE) is used to:

- Ans
- ☐ 1. Limit the movement of the wearer for safety reasons
 - ☐ 2. Make the work harder to perform
 - ☒ 3. Protect the wearer from health and safety risks at work
 - ☐ 4. Enhance personal fashion

Question ID : 630680588074
Option 1 ID : 6306802300831
Option 2 ID : 6306802300832
Option 3 ID : 6306802300834
Option 4 ID : 6306802300833
Status : Answered
Chosen Option : 3

Q.43 If a capacitor with a capacitance of 200 μ F is connected to a 50Hz AC source, what is the capacitive reactance?

- Ans
- ☒ 1. 15.9 Ω
 - ☐ 2. 1.59 Ω
 - ☐ 3. 159 Ω
 - ☐ 4. 1590 Ω

Question ID : 630680588105
Option 1 ID : 6306802300955
Option 2 ID : 6306802300957
Option 3 ID : 6306802300956
Option 4 ID : 6306802300958
Status : Answered
Chosen Option : 1

Q.44 What is a characteristic property of diamagnetic materials?

- Ans
- ☐ 1. They can be permanently magnetized.
 - ☐ 2. They are strongly attracted to magnets.
 - ☒ 3. They are weakly repelled by both poles of a magnet.
 - ☐ 4. They enhance the external magnetic field.

Question ID : 630680588093
Option 1 ID : 6306802300907
Option 2 ID : 6306802300908
Option 3 ID : 6306802300909
Option 4 ID : 6306802300910
Status : Answered
Chosen Option : 3

Q.45 In the construction of lighting fixtures, what is a critical design consideration for efficiency?

- Ans
- ☐ 1. The ease of installation
 - ☐ 2. The color of the light emitted
 - ☒ 3. The reflectance and directionality of the light
 - ☐ 4. The type of materials used for the fixture

Question ID : 630680588121
Option 1 ID : 6306802301019
Option 2 ID : 6306802301020
Option 3 ID : 6306802301021
Option 4 ID : 6306802301022
Status : Not Answered
Chosen Option : --

Q.46 Power factor is the ratio of which two types of power?

- Ans
- ☒ 1. Active power to apparent power
 - ☐ 2. Reactive power to active power
 - ☐ 3. Active power to reactive power
 - ☐ 4. Apparent power to active power

Question ID : 630680588106
Option 1 ID : 6306802300961
Option 2 ID : 6306802300959
Option 3 ID : 6306802300960
Option 4 ID : 6306802300962
Status : Answered
Chosen Option : 1

Q.47 Why is a capacitor used in the starting circuit of some AC motors?

- Ans
- ☐ 1. To store electrical energy for sustained operation.
 - ☒ 2. To provide a phase shift for the starting winding.
 - ☐ 3. To reduce power consumption during startup.
 - ☐ 4. To convert AC to DC for the starting phase.

Question ID : 630680588123
Option 1 ID : 6306802301029
Option 2 ID : 6306802301027
Option 3 ID : 6306802301030
Option 4 ID : 6306802301028
Status : Answered
Chosen Option : 2

Q.48 Maxwell's corkscrew rule helps to determine the:

- Ans
- ☐ 1. Strength of an electromagnet.
 - ☐ 2. Polarity of a permanent magnet.
 - ☒ 3. Direction of the magnetic field around a current-carrying conductor.
 - ☐ 4. Magnitude of the magnetic field inside a solenoid.

Question ID : 630680588094
Option 1 ID : 6306802300913
Option 2 ID : 6306802300912
Option 3 ID : 6306802300914
Option 4 ID : 6306802300911
Status : Answered
Chosen Option : 3

Q.49 How can the earth resistance be improved?

- Ans
- ☒ 1. By reducing the size of the earth electrode
 - ☒ 2. By wetting the area around the earth electrode
 - ☒ 3. By using insulating materials around the electrode
 - ☒ 4. By increasing the length of the earthing wire

Question ID : 630680588101
Option 1 ID : 6306802300940
Option 2 ID : 6306802300941
Option 3 ID : 6306802300939
Option 4 ID : 6306802300942
Status : Answered
Chosen Option : 2

Q.50 What is the primary purpose of elementary first aid?

- Ans
- ☒ 1. To stabilize an injured person until professional help arrives
 - ☒ 2. To diagnose medical conditions
 - ☒ 3. To transport the injured person to a medical facility
 - ☒ 4. To provide comprehensive medical treatment

Question ID : 630680588073
Option 1 ID : 6306802300829
Option 2 ID : 6306802300828
Option 3 ID : 6306802300827
Option 4 ID : 6306802300830
Status : Answered
Chosen Option : 1

Q.51 Which application is most suitable for an AC single-phase motor?

- Ans
- ☒ 1. Powering electric vehicles.
 - ☒ 2. Large industrial compressors.
 - ☒ 3. Heavy-duty lifting cranes.
 - ☒ 4. Household appliances like fans and washing machines.

Question ID : 630680588124
Option 1 ID : 6306802301034
Option 2 ID : 6306802301032
Option 3 ID : 6306802301031
Option 4 ID : 6306802301033
Status : Answered
Chosen Option : 4

Q.52 If an AC circuit has an active power of 400W and a reactive power of 300VAR, what is the apparent power?

- Ans
- ☒ 1. 100V A
 - ☒ 2. 340V A
 - ☒ 3. 700V A
 - ☒ 4. 500V A

Question ID : 630680588107
Option 1 ID : 6306802300963
Option 2 ID : 6306802300966
Option 3 ID : 6306802300965
Option 4 ID : 6306802300964
Status : Answered
Chosen Option : 4

Q.53 Which type of solder is commonly used for electronics due to its lower melting point?

- Ans
- ☒ 1. Aluminum solder
 - ☒ 2. Lead-tin solder
 - ☒ 3. Lead-free solder
 - ☒ 4. Silver solder

Question ID : 630680588085
Option 1 ID : 6306802300877
Option 2 ID : 6306802300875
Option 3 ID : 6306802300878
Option 4 ID : 6306802300876
Status : Answered
Chosen Option : 2

Q.54 What is the principle of electrolysis?

- Ans
- ☒ 1. Chemical decomposition produced by passing an electric current through a liquid or solution containing ions
 - ☒ 2. Production of electricity through magnetic fields
 - ☒ 3. Use of chemical reactions to generate electric current
 - ☒ 4. Conversion of mechanical energy into chemical energy

Question ID : 630680588088
Option 1 ID : 6306802300887
Option 2 ID : 6306802300890
Option 3 ID : 6306802300889
Option 4 ID : 6306802300888
Status : Answered
Chosen Option : 1

Q.55 What is the role of free electrons in electrical conduction?

- Ans
- ☒ 1. They move under the influence of an electric field to conduct electricity.
 - ☒ 2. They bind atoms together.
 - ☒ 3. They insulate the material.
 - ☒ 4. They increase the resistance.

Question ID : 630680588080
Option 1 ID : 6306802300856
Option 2 ID : 6306802300858
Option 3 ID : 6306802300857
Option 4 ID : 6306802300855
Status : Answered
Chosen Option : 1

Q.56 Which type of single-phase transformer is used for stepping down the voltage for domestic consumption?

- Ans
- ☒ 1. Step-up transformer
 - ☒ 2. Variable transformer
 - ☒ 3. Isolation transformer
 - ☒ 4. Step-down transformer

Question ID : 630680588109
Option 1 ID : 6306802300972
Option 2 ID : 6306802300974
Option 3 ID : 6306802300973
Option 4 ID : 6306802300971
Status : Answered
Chosen Option : 4

Q.57 Which type of screw has a cross shape that allows for greater torque without slippage?

- Ans
- ☒ 1. Hex
 - ☐ 2. Phillips
 - ☐ 3. Torx
 - ☐ 4. Slotted

Question ID : 630680588077
Option 1 ID : 6306802300844
Option 2 ID : 6306802300843
Option 3 ID : 6306802300846
Option 4 ID : 6306802300845
Status : Not Answered
Chosen Option : --

Q.58 If a simple electrical circuit contains a 12V battery and a 6-ohm resistor, what is the current flowing through the circuit?

- Ans
- ☐ 1. 0.5 A
 - ☐ 2. 72 A
 - ☐ 3. 18 A
 - ☒ 4. 2 A

Question ID : 630680588081
Option 1 ID : 6306802300860
Option 2 ID : 6306802300862
Option 3 ID : 6306802300861
Option 4 ID : 6306802300859
Status : Answered
Chosen Option : 4

Q.59 Which of the following is not a part of a DC generator?

- Ans
- ☐ 1. Armature
 - ☐ 2. Field winding
 - ☒ 3. Diode bridge
 - ☐ 4. Commutator

Question ID : 630680588099
Option 1 ID : 6306802300931
Option 2 ID : 6306802300934
Option 3 ID : 6306802300932
Option 4 ID : 6306802300933
Status : Answered
Chosen Option : 3

Q.60 In what scenario might an auto transformer be more economical than a traditional transformer?

- Ans
- ☐ 1. For high-frequency applications.
 - ☐ 2. When converting between very high voltages.
 - ☒ 3. When voltage conversion ratios are low.
 - ☐ 4. When high isolation is required between circuits.

Question ID : 630680588110
Option 1 ID : 6306802300976
Option 2 ID : 6306802300978
Option 3 ID : 6306802300977
Option 4 ID : 6306802300975
Status : Answered
Chosen Option : 3

Q.1 Which of the following is incorrectly matched pair regarding books and their author?

- Ans ☒ 1. India's Finance Ministers – A.K. Bhattacharya
☒ 2. Nation Calling –Sonal Goel
☒ 3. Mundaka Upanishad-The Bridge of immortality –J.P. Nadda
☒ 4. Draupadi Murmur From Tribal Hinterlands to Raisina Hill' – Kasturi Ray

Question ID : 630680588139
Option 1 ID : 6306802301094
Option 2 ID : 6306802301093
Option 3 ID : 6306802301092
Option 4 ID : 6306802301091
Status : Not Answered
Chosen Option : --

Q.2 Who among the following was not a part of the committee that was formed under the chairmanship of Motilal Nehru to frame a constitution of India?

- Ans ☒ 1. MS aney
☒ 2. Jawahar Lal Nehru
☒ 3. Mangal Singh
☒ 4. Tej Bahadur Sapru

Question ID : 630680588142
Option 1 ID : 6306802301104
Option 2 ID : 6306802301106
Option 3 ID : 6306802301105
Option 4 ID : 6306802301103
Status : Not Answered
Chosen Option : --

Q.3 Based on the information available till November – 2023, which state of India has the highest gold reserves?

- Ans ☒ 1. Maharashtra
☒ 2. Bihar
☒ 3. Madhya Pradesh
☒ 4. Uttar Pradesh

Question ID : 630680588140
Option 1 ID : 6306802301097
Option 2 ID : 6306802301098
Option 3 ID : 6306802301096
Option 4 ID : 6306802301095
Status : Not Answered
Chosen Option : --

Q.4 Who led the Salt Satyagraha in the coastal regions of Balasore ?

Ans ☒ 1. Gopal Bandhu Chaudhary

☐ 2. Bhagban Pradhan

☐ 3. Diwakar Behera

☐ 4. Kalindi Charan Panigrihi

Question ID : 630680588143

Option 1 ID : 6306802301109

Option 2 ID : 6306802301107

Option 3 ID : 6306802301108

Option 4 ID : 6306802301110

Status : Not Answered

Chosen Option : --

Q.5 Who has recently become the first Indian to operate Mars rover?

Ans ☐ 1. Ambarish Ganguly

☒ 2. Dr. Akshata Krishnamurthy

☐ 3. Mamta Patel Nagaraja

☐ 4. Murthy Gudipati

Question ID : 630680588135

Option 1 ID : 6306802301077

Option 2 ID : 6306802301076

Option 3 ID : 6306802301078

Option 4 ID : 6306802301075

Status : Not Answered

Chosen Option : --

Q.6 In 2030 Agenda for Sustainable Development, How many Sustainable Development goals are there?

Ans ☒ 1. 17

☐ 2. 15

☐ 3. 21

☐ 4. 19

Question ID : 630680588137

Option 1 ID : 6306802301083

Option 2 ID : 6306802301084

Option 3 ID : 6306802301086

Option 4 ID : 6306802301085

Status : Not Answered

Chosen Option : --

Q.7 Which among the following is the Mascot of Khelo India Para Games 2023?

Ans ☒ 1. Ujjawala

☐ 2. Bhima

☐ 3. Swaj

☐ 4. Thembu

Question ID : 630680588134

Option 1 ID : 6306802301073

Option 2 ID : 6306802301072

Option 3 ID : 6306802301071

Option 4 ID : 6306802301074

Status : Not Answered

Chosen Option : --

Q.8 What is the population density of Odisha as per the final data of 2011 census?

- Ans
- ☐ 1. 222 per square km
 - ☒ 2. 270 per square km
 - ☐ 3. 345 per square km
 - ☐ 4. 170 per square km

Question ID : 630680588147
Option 1 ID : 6306802301125
Option 2 ID : 6306802301126
Option 3 ID : 6306802301123
Option 4 ID : 6306802301124
Status : Not Answered
Chosen Option : --

Q.9 Yamuna River originates from which of the following states of India?

- Ans
- ☒ 1. Uttarakhand
 - ☐ 2. Bihar
 - ☐ 3. Himachal Pradesh
 - ☐ 4. Uttar Pradesh

Question ID : 630680588146
Option 1 ID : 6306802301121
Option 2 ID : 6306802301119
Option 3 ID : 6306802301122
Option 4 ID : 6306802301120
Status : Not Answered
Chosen Option : --

Q.10 Who is the writer of book "Unfinished"?

- Ans
- ☐ 1. Deepika Padukone
 - ☐ 2. Indira Nooyi
 - ☐ 3. Angelina Jolie
 - ☒ 4. Priyanka Chopra

Question ID : 630680588138
Option 1 ID : 6306802301087
Option 2 ID : 6306802301088
Option 3 ID : 6306802301090
Option 4 ID : 6306802301089
Status : Not Answered
Chosen Option : --

Q.11 As per November – 2023, How many subjects are there in 11th Schedule of Indian Constitution?

- Ans
- ☐ 1. 21
 - ☐ 2. 26
 - ☒ 3. 29
 - ☐ 4. 35

Question ID : 630680588144
Option 1 ID : 6306802301114
Option 2 ID : 6306802301113
Option 3 ID : 6306802301112
Option 4 ID : 6306802301111
Status : Not Answered
Chosen Option : --

Q.12 An Umbrella Scheme in a mission mode aimed at strengthening interventions for safety, security and empowerment of women. It seeks to realise the Government's vision for 'women-led development' by addressing issues affecting women on a life-cycle continuum basis. Identify the Scheme.

- Ans
- ☒ 1. Mahila Shakti Kendra
 - ☒ 2. Nari Yojana
 - ☒ 3. Mission Shakti
 - ☒ 4. One Stop Centre

Question ID : 630680588136
Option 1 ID : 6306802301081
Option 2 ID : 6306802301080
Option 3 ID : 6306802301079
Option 4 ID : 6306802301082
Status : Not Answered
Chosen Option : --

Q.13 As per the information available till November- 2023, who is the current Speaker of Odisha Legislative Assembly?

- Ans
- ☒ 1. Pramila Mallik
 - ☒ 2. Shri Adhiraj Mohan Panigrahi
 - ☒ 3. Shri Saluga Pradhan
 - ☒ 4. Smt. Pramila Mallick

Question ID : 630680588145
Option 1 ID : 6306802301115
Option 2 ID : 6306802301118
Option 3 ID : 6306802301116
Option 4 ID : 6306802301117
Status : Not Answered
Chosen Option : --

Q.14 UN Women merges and builds on the important work of four previously distinct parts of the UN system, which focus exclusively on gender equality and women's empowerment. Where is the headquarter of this body situated?

- Ans
- ☒ 1. Copenhagen, Denmark
 - ☒ 2. Tokyo, Japan
 - ☒ 3. New York City, USA
 - ☒ 4. Geneva, Switzerland

Question ID : 630680588133
Option 1 ID : 6306802301069
Option 2 ID : 6306802301070
Option 3 ID : 6306802301068
Option 4 ID : 6306802301067
Status : Not Answered
Chosen Option : --

Q.15 Mycorrhizae is perfect example of which of the following population interactions?

- Ans ☒ 1. Mutualism
- ☐ 2. Predation
- ☐ 3. Commensalism
- ☐ 4. Amensalism

Question ID : 630680588141
Option 1 ID : 6306802301101
Option 2 ID : 6306802301100
Option 3 ID : 6306802301099
Option 4 ID : 6306802301102
Status : Not Answered
Chosen Option : --

Section : Reasoning and Mental Ability

Q.1 What will come in place of the question mark (?) to make the series given below logically complete?
51, 54, 47, 50, 43, ?, ?

- Ans ☐ 1. 39, 42
- ☒ 2. 46, 39
- ☐ 3. 42, 39
- ☐ 4. 39, 46

Question ID : 630680588160
Option 1 ID : 6306802301176
Option 2 ID : 6306802301178
Option 3 ID : 6306802301175
Option 4 ID : 6306802301177
Status : Answered
Chosen Option : 2

Q.2 Ganesh started from his office towards North. After covering a distance of 8 km, he turned towards left and covered a distance of 6 km. What is the shortest distance now from his office?

- Ans ☐ 1. 16 km.
- ☐ 2. 12 km.
- ☒ 3. 10 km.
- ☐ 4. 14 km

Question ID : 630680588153
Option 1 ID : 6306802301150
Option 2 ID : 6306802301148
Option 3 ID : 6306802301147
Option 4 ID : 6306802301149
Status : Answered
Chosen Option : 3

Q.3 If $A < B < C < D < E < F$, then which among the following is the smallest in the given series.

Ans ☒ 1. A

☒ 2. D

☒ 3. C

☒ 4. F

Question ID : 630680588150

Option 1 ID : 6306802301135

Option 2 ID : 6306802301136

Option 3 ID : 6306802301137

Option 4 ID : 6306802301138

Status : Answered

Chosen Option : 1

Q.4 Which of the following options will replace the question mark on the basis of sports person and sports?

Mohammad Kaif : Cricket :: Ravi Dahiya:?

Ans ☒ 1. Badminton

☒ 2. Hockey

☒ 3. Archery

☒ 4. Wrestling

Question ID : 630680588154

Option 1 ID : 6306802301154

Option 2 ID : 6306802301151

Option 3 ID : 6306802301153

Option 4 ID : 6306802301152

Status : Not Answered

Chosen Option : --

Q.5 What will come in the place of question mark (?) to make the series given below logically complete?

J 8, M 27, P 64, S 125, V 216, ?, ?, ?

Ans ☒ 1. Y 343

☒ 2. Z 343

☒ 3. A 343

☒ 4. B 343

Question ID : 630680588155

Option 1 ID : 6306802301155

Option 2 ID : 6306802301156

Option 3 ID : 6306802301157

Option 4 ID : 6306802301158

Status : Answered

Chosen Option : 1

Q.6 5 men namely Anil, Bharat, Raghav, Kishore and Piyush are sitting in a straight line facing north. Anil is sitting on the extreme left side. Bharat is sitting immediately between Anil and Kishore. Kishore is sitting exactly between Bharat and Piyush. If Piyush is sitting immediately before Raghav, then who is sitting at the right end of the line?

- Ans ☒ 1. Bharat
☒ 2. Anil
☒ 3. Kishore
☒ 4. Raghav

Question ID : 630680588148
Option 1 ID : 6306802301128
Option 2 ID : 6306802301127
Option 3 ID : 6306802301129
Option 4 ID : 6306802301130

Status : Answered
Chosen Option : 4

Q.7 What will be value of the following expression?

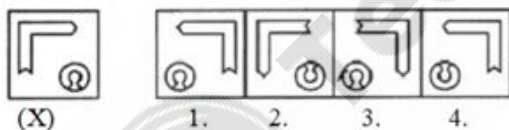
$$7.51 + 2.75 + 4.39 + 5.33 = ?$$

- Ans ☒ 1. 20.98
☒ 2. 19.98
☒ 3. 20.89
☒ 4. 19.89

Question ID : 630680588161
Option 1 ID : 6306802301182
Option 2 ID : 6306802301180
Option 3 ID : 6306802301181
Option 4 ID : 6306802301179

Status : Answered
Chosen Option : 2

Q.8 Which of the following option is the mirror image of the X?



- Ans ☒ 1. 3
☒ 2. 1
☒ 3. 2
☒ 4. 4

Question ID : 630680588157
Option 1 ID : 6306802301165
Option 2 ID : 6306802301163
Option 3 ID : 6306802301164
Option 4 ID : 6306802301166

Status : Answered
Chosen Option : 2

Q.9 If all the numbers and letters are removed from the series, what will be the fourth element from the RIGHT?

2 D 5 # F ! G 1 F 8 S) J 4 % G 3 H 7 # D = M %

- Ans
- ☒ 1.)
 - ☒ 2. S
 - ☒ 3. %
 - ☒ 4. #

Question ID : 630680588152
Option 1 ID : 6306802301143
Option 2 ID : 6306802301145
Option 3 ID : 6306802301144
Option 4 ID : 6306802301146
Status : Answered
Chosen Option : 3

Q.10 In a class total number of students is 49. From below, Mansi's rank is 23. What is her rank from the top?

- Ans
- ☒ 1. 29
 - ☒ 2. 27
 - ☒ 3. 26
 - ☒ 4. 28

Question ID : 630680588149
Option 1 ID : 6306802301134
Option 2 ID : 6306802301132
Option 3 ID : 6306802301131
Option 4 ID : 6306802301133
Status : Answered
Chosen Option : 3

Q.11 If 'M' denotes 'x', 'D' denotes '÷', 'A' denotes '+', 'S' denotes '-' Then what will be the value of the following expression?

12 S 64 D 8 A 16 M 6

- Ans
- ☒ 1. 150
 - ☒ 2. 90
 - ☒ 3. 120
 - ☒ 4. 100

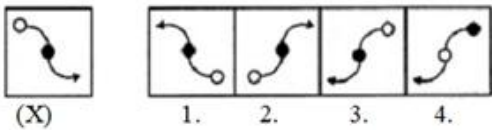
Question ID : 630680588159
Option 1 ID : 6306802301174
Option 2 ID : 6306802301171
Option 3 ID : 6306802301173
Option 4 ID : 6306802301172
Status : Answered
Chosen Option : 4

Q.12 In a certain code language, if CODE is written as 27 and RAW is written as 42, then How INDIA will be written in the same code language ?

- Ans
- ☒ 1. 36
 - ☒ 2. 37
 - ☒ 3. 38
 - ☒ 4. 35

Question ID : 630680588151
Option 1 ID : 6306802301140
Option 2 ID : 6306802301141
Option 3 ID : 6306802301142
Option 4 ID : 6306802301139
Status : Answered
Chosen Option : 2

Q.13 Which of the following option is the mirror image of the X?



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

Question ID : 630680588158
Option 1 ID : 6306802301170
Option 2 ID : 6306802301168
Option 3 ID : 6306802301169
Option 4 ID : 6306802301167
Status : Answered
Chosen Option : 3

Q.14 Which of the following options will replace the question mark in the given figure below? (Rotation is allowed)



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

Question ID : 630680588156
Option 1 ID : 6306802301162
Option 2 ID : 6306802301161
Option 3 ID : 6306802301160
Option 4 ID : 6306802301159
Status : Answered
Chosen Option : 4

Q.15 Which of the following optional pair is similar to the pair given below?

1024 : 32

- Ans
- ☒ 1. 1220 : 35
 - ☒ 2. 840 : 29
 - ☒ 3. 729 : 27
 - ☒ 4. 890 : 30

Question ID : 630680588162
Option 1 ID : 6306802301184
Option 2 ID : 6306802301183
Option 3 ID : 6306802301186
Option 4 ID : 6306802301185
Status : Answered
Chosen Option : 3

Section : Quantitative Aptitude

Q.1 A batsman scored 130 runs which included 4 boundaries and 6 sixes. What percent of his total score did he make by running between the wickets?

- Ans
- ☒ 1. 45%
 - ☒ 2. 50%
 - ☒ 3. 60%
 - ☒ 4. 55%

Question ID : 630680588167
Option 1 ID : 6306802301203
Option 2 ID : 6306802301205
Option 3 ID : 6306802301204
Option 4 ID : 6306802301206
Status : Answered
Chosen Option : 3

Q.2 If the lines $8x+2ky-3=0$ and $2x+8y+2=0$ are parallel, then what is the value of k?

- Ans
- ☒ 1. 20
 - ☒ 2. 14
 - ☒ 3. 16
 - ☒ 4. 18

Question ID : 630680588173
Option 1 ID : 6306802301230
Option 2 ID : 6306802301227
Option 3 ID : 6306802301228
Option 4 ID : 6306802301229
Status : Not Answered
Chosen Option : --

Q.3 A tree breaks due to storm and the broken part bends, so that the top of the tree touches the ground making an angle of 30° with the ground. The distance between the foot of the tree to the point where the top touches the ground is 21.6 m. Find the height of the tree (in meters)

- Ans**
- ✓ 1. $21.6\sqrt{3}$ m
 - ✗ 2. $64.8/\sqrt{3}$ m
 - ✗ 3. $64.8\sqrt{3}$ m
 - ✗ 4. $21.6/\sqrt{3}$ m

Question ID : 630680588177
 Option 1 ID : 6306802301244
 Option 2 ID : 6306802301243
 Option 3 ID : 6306802301246
 Option 4 ID : 6306802301245
 Status : Not Answered
 Chosen Option : --

Q.4 Three bells ring at an interval of 6, 16 and 20 min they ring together at 6 am what time will they ring together again?

- Ans**
- ✗ 1. 8 AM
 - ✗ 2. 11 AM
 - ✓ 3. 10 AM
 - ✗ 4. 1 PM

Question ID : 630680588166
 Option 1 ID : 6306802301202
 Option 2 ID : 6306802301199
 Option 3 ID : 6306802301201
 Option 4 ID : 6306802301200
 Status : Answered
 Chosen Option : 1

Q.5 Find the expectation of random variable a?

A	0	1	2	3	4
F(a)	$2/5$	$3/5$	$4/5$	$7/5$	$9/5$

- Ans**
- ✗ 1. 29.6
 - ✗ 2. 68.6
 - ✓ 3. 13.6
 - ✗ 4. 70.5

Question ID : 630680588170
 Option 1 ID : 6306802301216
 Option 2 ID : 6306802301217
 Option 3 ID : 6306802301215
 Option 4 ID : 6306802301218
 Status : Not Answered
 Chosen Option : --

Q.6 Add $3\sqrt{5} + 6\sqrt{3}$ and $6\sqrt{5} - 4\sqrt{3}$

- Ans
- ☐ 1. $9\sqrt{5} - 2\sqrt{3}$
 - ☒ 2. $9\sqrt{5} + 2\sqrt{3}$
 - ☐ 3. $24 - 2\sqrt{5}$
 - ☐ 4. $20 - 4\sqrt{3}$

Question ID : 630680588165
Option 1 ID : 6306802301196
Option 2 ID : 6306802301198
Option 3 ID : 6306802301197
Option 4 ID : 6306802301195
Status : Answered
Chosen Option : 2

Q.7 The area of a rhombus is 248 cm^2 and one of the diagonals is 12.4 cm. Find the other diagonal.

- Ans
- ☒ 1. 40 cm
 - ☐ 2. 35 m
 - ☐ 3. 32 m
 - ☐ 4. 44 m

Question ID : 630680588176
Option 1 ID : 6306802301241
Option 2 ID : 6306802301240
Option 3 ID : 6306802301239
Option 4 ID : 6306802301242
Status : Not Answered
Chosen Option : --

Q.8 Sunny bought an AC for ₹ 16150 and paid ₹ 250 for transportation. Then he sold it for ₹16860. Find his profit %.

- Ans
- ☐ 1. 3.404%
 - ☐ 2. 3.905%
 - ☐ 3. 2.103%
 - ☒ 4. 2.805%

Question ID : 630680588168
Option 1 ID : 6306802301209
Option 2 ID : 6306802301210
Option 3 ID : 6306802301207
Option 4 ID : 6306802301208
Status : Answered
Chosen Option : 4

Q.9 The compound ratio of (20:25), (30:35), (40:45) is:

- Ans
- ☐ 1. 92:15
 - ☐ 2. 39:24
 - ☒ 3. 192:315
 - ☐ 4. 24:39

Question ID : 630680588169
Option 1 ID : 6306802301214
Option 2 ID : 6306802301212
Option 3 ID : 6306802301213
Option 4 ID : 6306802301211
Status : Answered
Chosen Option : 3

Q.10 The average weight of A, B and C is 36 kg. If the average weight of A and B be 30 kg and that of B and C be 32 kg, then the weight of B is:

- Ans
- ☐ 1. 20 kg
 - ☒ 2. 16 kg
 - ☐ 3. 18 kg
 - ☐ 4. 32 kg

Question ID : 630680588163
Option 1 ID : 6306802301187
Option 2 ID : 6306802301188
Option 3 ID : 6306802301189
Option 4 ID : 6306802301190
Status : Answered
Chosen Option : 2

Q.11 Two pipes can fill a tank in 11 hours and 20 hours respectively while a third pipe empties the full tank in 29 hours. If all the three pipes operate simultaneously, in how much time will the tank be filled?

- Ans
- ☐ 1. 13.6 hrs.
 - ☒ 2. 9.4 hrs.
 - ☐ 3. 11.2 hrs.
 - ☐ 4. 12.5 hrs.

Question ID : 630680588171
Option 1 ID : 6306802301222
Option 2 ID : 6306802301219
Option 3 ID : 6306802301220
Option 4 ID : 6306802301221
Status : Answered
Chosen Option : 2

Q.12 Two girls move in opposite directions, one from A to B and other from B to A. The girl from A reaches the destination in 25 hrs. and girl from B reaches her destination in 64 hrs., after having met. If former's speed is 18.5 km/hrs., what will be the speed of latter?

- Ans**
- ☒ 1. 10.24 km/hrs.
 - ☒ 2. 11.56 km/hrs.
 - ☒ 3. 8.25 km/hrs.
 - ☒ 4. 7.75 km/hrs.

Question ID : 630680588172
Option 1 ID : 6306802301225
Option 2 ID : 6306802301226
Option 3 ID : 6306802301224
Option 4 ID : 6306802301223
Status : Not Answered
Chosen Option : --

Q.13 The compound interest on Rs. 50,000 at the rate of 7.5% per annum for a certain period of time is Rs. 7,781.25, then find the time period.

- Ans**
- ☒ 1. 4 years
 - ☒ 2. 2 years
 - ☒ 3. 1 years
 - ☒ 4. 3 years

Question ID : 630680588164
Option 1 ID : 6306802301194
Option 2 ID : 6306802301192
Option 3 ID : 6306802301191
Option 4 ID : 6306802301193
Status : Answered
Chosen Option : 2

Q.14 The area of a trapezium is 297.5 cm^2 , the distance between two parallel sides is 17.5 cm and one of the parallel side is 22 cm. The other parallel side is:

- Ans**
- ☒ 1. 12
 - ☒ 2. 11.5
 - ☒ 3. 10
 - ☒ 4. 13.56

Question ID : 630680588175
Option 1 ID : 6306802301237
Option 2 ID : 6306802301236
Option 3 ID : 6306802301235
Option 4 ID : 6306802301238
Status : Not Answered
Chosen Option : --

Q.15 In class, 25% of students study Hindi, 50% study Maths, and 20% study both Hindi and Maths. If a student is randomly selected, what is the probability that he/she study Hindi or maths?

- Ans** ☒ 1. 11/20
 ☐ 2. 20/11
 ☐ 3. 1/2
 ☐ 4. 1/9

Question ID : 630680588174
Option 1 ID : 6306802301232
Option 2 ID : 6306802301233
Option 3 ID : 6306802301231
Option 4 ID : 6306802301234
Status : Not Answered
Chosen Option : --

Section : English

Q.1 Select the most appropriate SYNONYM of the given word below.
Corrigible

- Ans** ☒ 1. correctable
 ☐ 2. Revoke
 ☐ 3. Irreparable
 ☐ 4. Irreversible

Question ID : 630680588191
Option 1 ID : 6306802301301
Option 2 ID : 6306802301302
Option 3 ID : 6306802301299
Option 4 ID : 6306802301300
Status : Not Answered
Chosen Option : --

Q.2 Select the most appropriate form of past tense from the given option to replace the underlined word in order to correct the sentence.
We had reached our hotel before it starts raining.

- Ans** ☐ 1. starting
 ☐ 2. was started
 ☒ 3. started
 ☐ 4. had start

Question ID : 630680588184
Option 1 ID : 6306802301271
Option 2 ID : 6306802301273
Option 3 ID : 6306802301272
Option 4 ID : 6306802301274
Status : Answered
Chosen Option : 2

Q.3 Select the most appropriate form of past tense from the given option to replace the underlined word in order to correct the sentence.
It has been rain since early morning.

- Ans
- ☒ 1. rained
 - ☒ 2. was raining
 - ☒ 3. had rains
 - ☒ 4. raining

Question ID : 630680588186
Option 1 ID : 6306802301280
Option 2 ID : 6306802301279
Option 3 ID : 6306802301281
Option 4 ID : 6306802301282
Status : Answered
Chosen Option : 1

Q.4 Select the most appropriate preposition from the given option to fill in the blanks for the given sentence.
He jumped _____ the well.

- Ans
- ☒ 1. into
 - ☒ 2. on
 - ☒ 3. to
 - ☒ 4. at

Question ID : 630680588182
Option 1 ID : 6306802301264
Option 2 ID : 6306802301266
Option 3 ID : 6306802301265
Option 4 ID : 6306802301263
Status : Answered
Chosen Option : 1

Q.5 Select the appropriate article from the below options to complete the sentence. Mark "No article" if there is no requirement of article in the given sentence.
The Alps are _____ highest mountains in Europe.

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

Question ID : 630680588179
Option 1 ID : 6306802301251
Option 2 ID : 6306802301252
Option 3 ID : 6306802301254
Option 4 ID : 6306802301253
Status : Answered
Chosen Option : 1

Q.6 Choose the most appropriate one-word substitution for the below word.
"One who hates mankind"

- Ans ☒ 1. Misanthrope
☐ 2. Philanthropist
☐ 3. Idealist
☐ 4. Inexplicable

Question ID : 630680588190
Option 1 ID : 6306802301296
Option 2 ID : 6306802301298
Option 3 ID : 6306802301297
Option 4 ID : 6306802301295
Status : Not Answered
Chosen Option : --

Q.7 Select the most appropriate preposition from the given option to fill in the blanks for the given sentence.
There was a beautiful lake _____ us in the valley.

- Ans ☒ 1. below
☐ 2. to
☐ 3. up to
☐ 4. over

Question ID : 630680588183
Option 1 ID : 6306802301268
Option 2 ID : 6306802301269
Option 3 ID : 6306802301270
Option 4 ID : 6306802301267
Status : Answered
Chosen Option : 4

Q.8 Select the most appropriate options from below which changes the following active sentences into passive voice.
Seema can do skydiving.

- Ans ☒ 1. Skydiving can be done by Seema.
☐ 2. Skydiving should be done by Seema.
☐ 3. Skydiving can be did by Seema.
☐ 4. Seems wants to do skydiving.

Question ID : 630680588187
Option 1 ID : 6306802301286
Option 2 ID : 6306802301284
Option 3 ID : 6306802301283
Option 4 ID : 6306802301285
Status : Answered
Chosen Option : 1

Q.9 Select the most appropriate options from below which changes the following active sentences into passive voice.

She begins her day with a cup of coffee.

Ans ☒ 1. Her day is beginning with a cup of coffee.

☒ 2. Her day is begun with a cup of coffee.

☒ 3. A cup of coffee starts her day.

☒ 4. A cup of coffee are begun her day.

Question ID : 630680588188

Option 1 ID : 6306802301288

Option 2 ID : 6306802301290

Option 3 ID : 6306802301289

Option 4 ID : 6306802301287

Status : Not Answered

Chosen Option : --

Q.10 Select the most appropriate form of past tense from the given option to replace the underlined word in order to correct the sentence.

He said that he had already buy the tickets.

Ans ☒ 1. was buying

☒ 2. was bought

☒ 3. had buy

☒ 4. bought

Question ID : 630680588185

Option 1 ID : 6306802301278

Option 2 ID : 6306802301275

Option 3 ID : 6306802301276

Option 4 ID : 6306802301277

Status : Answered

Chosen Option : 4

Q.11 Select the most appropriate SYNONYM of the given word below.
Adulation

Ans ☒ 1. Adoration

☒ 2. Hatred

☒ 3. Dismissal

☒ 4. Condemnation

Question ID : 630680588192

Option 1 ID : 6306802301306

Option 2 ID : 6306802301303

Option 3 ID : 6306802301304

Option 4 ID : 6306802301305

Status : Not Answered

Chosen Option : --

Q.12 Select the most appropriate preposition from the given option to fill in the blanks for the given sentence.
He swam _____ the river.

- Ans
- ☒ 1. beside
 - ☒ 2. along
 - ☒ 3. across
 - ☒ 4. under

Question ID : 630680588181
Option 1 ID : 6306802301260
Option 2 ID : 6306802301259
Option 3 ID : 6306802301261
Option 4 ID : 6306802301262
Status : Answered
Chosen Option : 2

Q.13 Select the most appropriate preposition from the given option to fill in the blanks for the given sentence.
I am suffering _____ a headache.

- Ans
- ☒ 1. from
 - ☒ 2. on
 - ☒ 3. with
 - ☒ 4. at

Question ID : 630680588180
Option 1 ID : 6306802301258
Option 2 ID : 6306802301255
Option 3 ID : 6306802301256
Option 4 ID : 6306802301257
Status : Answered
Chosen Option : 1

Q.14 Choose the most appropriate one-word substitution for the below word.
"A person for whom money or gain is the most important consideration."

- Ans
- ☒ 1. Altruistic
 - ☒ 2. Benevolent
 - ☒ 3. Charitable
 - ☒ 4. Materialistic

Question ID : 630680588189
Option 1 ID : 6306802301291
Option 2 ID : 6306802301294
Option 3 ID : 6306802301292
Option 4 ID : 6306802301293
Status : Not Answered
Chosen Option : --

Q.15 Select the appropriate article from the below options to complete the sentence. Mark "No article" if there is no requirement of article in the given sentence.
_____ air we breathe is a mixture of several gases.

Ans ☒ 1. The

☐ 2. An

☐ 3. No article

☐ 4. A

Question ID : 630680588178

Option 1 ID : 6306802301249

Option 2 ID : 6306802301250

Option 3 ID : 6306802301248

Option 4 ID : 6306802301247

Status : Answered

Chosen Option : 1



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