



POWER GRID CORPORATION OF INDIA LIMITED

World Class, Integrated, Global Transmission Company

(A Government of India Enterprise)

Test Date:	
Test Time:	
Subject:	JUNIOR TECHNICIAN TRAINEE ELECTRICAL

Section : Discipline

Q.1 A hydrometer is used to test the _____ of a cell.

- Ans 1. specific gravity
 2. current
 3. power
 4. voltage

Question ID : 6044818764

Status : Answered

Chosen Option : 1

Q.2 Which option represents the correct properties of a good insulator?

- Ans 1. Low die electric strength and low resistance
 2. Low die electric strength and high resistance
 3. High die electric strength and high resistance
 4. High die electric strength and low resistance

Question ID : 6044818677

Status : Answered

Chosen Option : 3

Q.3 Phase sequence indicator is used to identify phase sequence in a:

- Ans 1. Pulsating supply
 2. Three-phase supply
 3. Single-phase supply
 4. DC supply

Question ID : 6044818724

Status : Answered

Chosen Option : 2

Q.4 Insulation of LT cable is tested at the voltage of:

- Ans 1. 600 V
 2. 1100 V
 3. 22 KV
 4. 33 KV

Question ID : 6044818680

Status : Answered

Chosen Option : 2

Q.5 Silicon, boron and germanium are which type of materials?

- Ans 1. Insulator

Question ID : 6044818678

Status : Answered

2. Conductor
3. Semi-conductor
4. Semi-insulator

Chosen Option : 3

Q.6 Kit-Kat fuses are made of:

- Ans 1. PVC
2. Fiber
3. Brass
4. Porcelain

Question ID : 6044818746

Status : Answered

Chosen Option : 4

Q.7 Which type of lamp is preferred for solar lamp?

- Ans 1. LED
2. Arc lamp
3. Tungsten filament
4. Sodium vapour lamp

Question ID : 6044818728

Status : Answered

Chosen Option : 1

Q.8 Permanent capacitor motor is used for:

- Ans 1. Grinder
2. Washing machine
3. Drill machine
4. Ceiling and table fan

Question ID : 6044818741

Status : Answered

Chosen Option : 4

Q.9 The range of an ammeter may be extended by the use of a:

- Ans 1. multiplier in parallel
2. shunt in series
3. multiplier in series
4. shunt in parallel

Question ID : 6044818776

Status : Answered

Chosen Option : 4

Q.10 Which type of insulator is used on 132 kV transmission lines?

- Ans 1. Pin and shackle type
2. Shackle type
3. Disc type
4. Pin type

Question ID : 6044818789

Status : Answered

Chosen Option : 3

Q.11 For extension of the range of ampere meter and volt meter, the resistance is connected as ampere meter in _____ and as volt meter in _____.

- Ans 1. parallel, parallel
2. parallel, series
3. series, parallel
4. series, series

Question ID : 6044818725

Status : Answered

Chosen Option : 2

Q.12 In a series circuit, the current flows in how many directions?

- Ans
- 1. Three
 - 2. One
 - 3. Four
 - 4. Two

Question ID : 6044818683

Status : Answered

Chosen Option : 2

Q.13 In the short circuit test of any installation, what should be the megger reading in short circuit condition?

- Ans
- 1. 10000 ohm
 - 2. Zero
 - 3. Unity
 - 4. 1000 ohm

Question ID : 6044818706

Status : Answered

Chosen Option : 2

Q.14 Potential transformer is which type of transformer?

- Ans
- 1. Auto-transformer
 - 2. Step up transformer
 - 3. Step down transformer
 - 4. Low voltage transformer

Question ID : 6044818715

Status : Answered

Chosen Option : 3

Q.15 Generally, which method of 'earthing' is used in India?

- Ans
- 1. Coil and plate earthing
 - 2. Rod and coil earthing
 - 3. Plate and pipe earthing
 - 4. Rod and pipe earthing

Question ID : 6044818707

Status : Answered

Chosen Option : 2

Q.16 How is pole pitch calculated?

- Ans
- 1. Number of phases \times Number of poles
 - 2. Number of slots / Number of poles
 - 3. Number of coils / Number of poles
 - 4. Number of poles \times Number of frequencies

Question ID : 6044818730

Status : Answered

Chosen Option : 3

Q.17 Sparking occurs when a load is switched-off because the circuit has a high ____.

- Ans
- 1. inductance
 - 2. resistance
 - 3. impedance
 - 4. capacitance

Question ID : 6044818766

Status : Answered

Chosen Option : 1

Q.18 The speed control of a universal motor is achieved by:

- Ans
- 1. a capacitor connected in series
 - 2. a centrifugal switch connected series with the starting winding

Question ID : 6044818788

Status : Answered

Chosen Option : 3

3.

varying the field flux with taped field windings

4. a capacitor connected in parallel

Q.19 Stepper motors are mostly used for:

- Ans 1. high power requirements
 2. very high speed of operation
 3. control system applications
 4. very low speed of operation

Question ID : 6044818787

Status : Answered

Chosen Option : 3

Q.20 How many types of DC motor starters are there?

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

Question ID : 6044818703

Status : Answered

Chosen Option : 4

Q.21 Atomic number of copper is:

- Ans 1. 29
 2. 31
 3. 25
 4. 27

Question ID : 6044818675

Status : Answered

Chosen Option : 1

Q.22 An electric current that periodically reverses is called:

- Ans 1. AC current
 2. Thermal current
 3. Pulsating current
 4. DC current

Question ID : 6044818709

Status : Answered

Chosen Option : 1

Q.23 In a CRO with a sweep time of 10 ms across the screen, the approximate horizontal sawtooth frequency will be ____.

- Ans 1. 100 Hz
 2. 50 Hz
 3. 1 kHz
 4. 500 Hz

Question ID : 6044818775

Status : Answered

Chosen Option : 1

Q.24 A three-phase squirrel-cage induction motor can be started with a:

- Ans 1. Both DOL and star-delta
 2. Star-delta starter
 3. Resistance starter
 4. DOL starter

Question ID : 6044818783

Status : Answered

Chosen Option : 2

Q.25 In the moving system of measuring instruments, hair spring is made of:

- Ans 1. Aluminium

Question ID : 6044818722

Status : Answered

2. Silicon steel

3. Copper

4. Phosphor bronze

Chosen Option : 4

Q.26 The gas used in halogen lamps is:

Ans 1. Helium

2. Halogen

3. Argon

4. Nitrogen

Question ID : 6044818727

Status : Answered

Chosen Option : 3

Q.27 Two way switches are used in:

Ans 1. Industrial wiring

2. Power wiring

3. Road wiring

4. Staircase wiring

Question ID : 6044818684

Status : Answered

Chosen Option : 1

Q.28 Iron, nickel and cobalt are _____ metals.

Ans 1. paramagnetic

2. dimagnetic

3. ferromagnetic

4. temporary magnetic

Question ID : 6044818689

Status : Answered

Chosen Option : 3

Q.29 A transformer is said to be working at the maximum efficiency when:

Ans 1. Iron loss = copper loss

2. Iron loss is more than copper loss

3. Iron losses = fraction losses

4. Copper loss is more than iron loss

Question ID : 6044818717

Status : Answered

Chosen Option : 1

Q.30 The mass of material deposited over an electrode is:

Ans 1. proportional to the current only

2.

proportional to the quantity of electricity and the electrochemical equivalent

3. proportional to the time only

4. proportional to the voltage

Question ID : 6044818761

Status : Answered

Chosen Option : 2

Q.31 A poker is used to:

Ans 1. tighten the bolts

2. make pilot holes to fix wood screws

Question ID : 6044818752

Status : Not Attempted and
Marked For Review

Chosen Option : --

- 3. loosen the bolts
- 4. cut the conduit pipes

Q.32 In the context of first aid, the full form of ABC system is:

- Ans
- 1. Airway, Breath, Circulation
 - 2. Air system, Breathing, Chest Circulation
 - 3. Airway, Breathing, Circulation
 - 4. Airway, Breathing, Chest

Question ID : 6044818671

Status : Answered

Chosen Option : 2

Q.33 In three-phase induction motor, the double cage rotor is used for:

- Ans
- 1. Low starting current
 - 2. Low starting torque
 - 3. High starting torque
 - 4. High starting current

Question ID : 6044818734

Status : Answered

Chosen Option : 1

Q.34 The efficiency of a cell can be considered in _____.

- Ans
- 1. AH
 - 2. HP
 - 3. WATT
 - 4. KVA

Question ID : 6044818688

Status : Answered

Chosen Option : 1

Q.35 The magnetic potential in a magnetic circuit can be measured in terms of:

- Ans
- 1. Farads
 - 2. Henrys
 - 3. coulombs
 - 4. MMF

Question ID : 6044818765

Status : Answered

Chosen Option : 4

Q.36 The power factor of a DC circuit is:

- Ans
- 1. Less than unity
 - 2. Zero
 - 3. Greater than unity
 - 4. Unity

Question ID : 6044818772

Status : Answered

Chosen Option : 4

Q.37 Physical state of the atmosphere, surface state of the conductor, and the distance between the conductor and line voltage values are responsible for the production of:

- Ans
- 1. Corona
 - 2. Heating effect
 - 3. Skin effect
 - 4. Proximity effect

Question ID : 6044818749

Status : Answered

Chosen Option : 1

Q.38 Which of the following materials has a near-zero temperature coefficient?

Question ID : 6044818759

- Ans 1. Manganese
 2. Aluminium
 3. Iron
 4. Carbon

Status : Answered
Chosen Option : 2

Q.39 A eureka wire is used:

- Ans 1. in domestic wiring
 2. as variable resistance
 3. as a lamp's filament
 4. in overhead lines

Question ID : 6044818757
Status : Not Answered
Chosen Option : --

Q.40 In induction motors, percentage slip is found in the range of:

- Ans 1. 1-5 %
 2. 1-100 %
 3. 5-10 %
 4. 1-10 %

Question ID : 6044818739
Status : Answered
Chosen Option : 1

Q.41 The correct phase sequence of an alternator is:

- Ans 1. Blue, red and yellow
 2. Red, blue and yellow
 3. Yellow, black and red
 4. Red, yellow and blue

Question ID : 6044818719
Status : Answered
Chosen Option : 4

Q.42 Electrochemical equivalent (M) is indicated by which of the below relations?

- Ans 1. $M=Z*i*t$
 2. $M=Z*t$
 3. $M=I*t$
 4. $M=Z*i$

Question ID : 6044818686
Status : Answered
Chosen Option : 1

Q.43 The working principle of a transformer is:

- Ans 1. Faraday's law
 2. Mutual inductance
 3. Ohm's law
 4. Ampere law

Question ID : 6044818714
Status : Answered
Chosen Option : 1

Q.44 Heating elements of domestic appliances are made of:

- Ans 1. Copper
 2. NI-chrome
 3. Silver
 4. Canthal

Question ID : 6044818693
Status : Answered
Chosen Option : 2

Q.45 Which of the below is the correct full form of CRO?

- Ans
- 1. Capital ray oscilloscope
 - 2. Current ray oscilloscope
 - 3. Cathode ray oscilloscope
 - 4. Cathode ray output

Question ID : 6044818726

Status : Answered

Chosen Option : 3

Q.46 In a series circuit, the total resistance (R) of the circuit is 100 ohms; the first two resistances are 30 ohm and 50 ohm. Find out the third resistance.

- Ans
- 1. 40 Ω
 - 2. 30 Ω
 - 3. 20 Ω
 - 4. 10 Ω

Question ID : 6044818681

Status : Answered

Chosen Option : 3

Q.47 A transformer is used to change the value of ____.

- Ans
- 1. Power factor
 - 2. Voltage
 - 3. Frequency
 - 4. Power

Question ID : 6044818774

Status : Answered

Chosen Option : 2

Q.48 Winding of a generator has two ends. Winding of a three phase generator has a total of six ends. These ends can be connected in any one of two styles, namely:

- Ans
- 1. Input and output
 - 2. Star and delta
 - 3. Primary and secondary
 - 4. Starting and running

Question ID : 6044818711

Status : Answered

Chosen Option : 2

Q.49 Electrical measuring instruments are divided in three main parts, namely:

- Ans
- 1. Deflecting type, recording type and integrating type
 - 2. Deflecting type, lighting type and integrating type
 - 3. Lighting type, chemical type and integrating type
 - 4. Magnetic type, lighting type and recording type

Question ID : 6044818721

Status : Answered

Chosen Option : 1

Q.50 Magnetic flux is measured in _____.

- Ans
- 1. volt
 - 2. weber
 - 3. ampere
 - 4. watts

Question ID : 6044818754

Status : Answered

Chosen Option : 2

Q.51 The frequency of the induced emf in the rotor circuit is:

Question ID : 6044818784

- Ans 1. maximum at stand still
 2. minimum at stand still
 3. zero at stand still
 4. maximum at synchronous speed

Status : **Answered**
Chosen Option : 1

Q.52 Which of the below is the correct full form of VIR?

- Ans 1. Vulcanised India rubber
 2. Vulcanised insulated rubber
 3. Vinyl insulated rubber
 4. Vinyl India rubber

Question ID : 6044818704
Status : **Answered**
Chosen Option : 2

Q.53 A / an ___ is used for the measurement of power at 500 MHz.

- Ans 1. Compensated wattmeter
 2. Low PF wattmeter
 3. Bolometer
 4. Electrodynamic wattmeter

Question ID : 6044818779
Status : **Answered**
Chosen Option : 3

Q.54 The positive electrode is called as:

- Ans 1. Diode
 2. Anode
 3. Cathode
 4. Triode

Question ID : 6044818685
Status : **Answered**
Chosen Option : 2

Q.55 In electrical work, the solder used is practically always an alloy of lead and _____.

- Ans 1. tin
 2. aluminium
 3. copper
 4. iron

Question ID : 6044818755
Status : **Answered**
Chosen Option : 1

Q.56 What is the other name of underground conduit pipe wiring?

- Ans 1. Open wiring
 2. Duct wiring or concealed wiring
 3. Lead sheathed wiring
 4. Wooden casing-capping wiring

Question ID : 6044818705
Status : **Answered**
Chosen Option : 2

Q.57 The effect of armature flux on the main field flux is called:

- Ans 1. EDDY current reaction
 2. Armature reaction
 3. Hysteresis
 4. Excitation

Question ID : 6044818697
Status : **Answered**
Chosen Option : 2

Q.58 For a single phase induction motor, the centrifugal switch is connected to:

- Ans
- 1. Parallel to running wiring
 - 2. Parallel to series wiring
 - 3. Series to running wiring
 - 4. Series to starting wiring

Question ID : 6044818738

Status : Answered

Chosen Option : 1

Q.59 In a single-phase repulsion motor, the power factor is:

- Ans
- 1. always unity
 - 2. high at high speed
 - 3. always leading
 - 4. high at low speed

Question ID : 6044818786

Status : Answered

Chosen Option : 4

Q.60 The maximum value of a sine wave AC voltage is 10 V. What is its rms value?

- Ans
- 1. 6.060 V
 - 2. 7.070 V
 - 3. 1.414 V
 - 4. 14.140 V

Question ID : 6044818773

Status : Answered

Chosen Option : 2

Q.61 Which of the below is a demerit of eddy current?

- Ans
- 1. Unnecessary heat
 - 2. Voltage drop
 - 3. Low power factor
 - 4. Low current

Question ID : 6044818690

Status : Answered

Chosen Option : 1

Q.62 The current carrying capacity of a copper wire having twice the diameter of another copper wire is _____.

- Ans
- 1. three-times as great
 - 2. half as great
 - 3. four-times as great
 - 4. twice as great

Question ID : 6044818760

Status : Answered

Chosen Option : 4

Q.63 The most important method to avoid electric shock is:

- Ans
- 1. Having proper red phase in place
 - 2. Having proper earthing in place
 - 3. Having proper yellow phase in place
 - 4. Having proper neutral wire

Question ID : 6044818670

Status : Answered

Chosen Option : 2

Q.64 The form factor for a sinusoidal wave form is:

- Ans
- 1. 1.00
 - 2. 1.11

Question ID : 6044818771

Status : Answered

Chosen Option : 2

3. 2.22

4. 0.55

Q.65 Which of the following instruments usually has the lowest resistance?

- Ans 1. Megger
 2. Frequency meter
 3. Ammeter
 4. Voltmeter

Question ID : 6044818780

Status : Answered

Chosen Option : 2

Q.66 A three-phase supply can be changed into a two-phase supply with the help of:

- Ans 1. Scott connect
 2. V-V connection
 3. Main switch
 4. Star-Delta connection

Question ID : 6044818713

Status : Answered

Chosen Option : 1

Q.67 In AC winding, a four pole motor has 24 slots. The value of pole pitch will be:

- Ans 1. 10
 2. 6
 3. 16
 4. 4

Question ID : 6044818729

Status : Answered

Chosen Option : 2

Q.68 Which type of DC generator is used to charge the battery?

- Ans 1. Shunt
 2. Compound
 3. Series
 4. Long shunt compound

Question ID : 6044818696

Status : Answered

Chosen Option : 1

Q.69 In brushless alternator, there are two alternators on one shaft. Which are those?

- Ans 1. Main alternator and series generator
 2. Main alternator and exciter
 3. Exciter and series generator
 4. Series generator and shunt generator

Question ID : 6044818720

Status : Answered

Chosen Option : 2

Q.70 A pin vice is used for:

- Ans 1. holding jobs involving very high temperatures
 2. holding very small jobs like pins
 3. holding jobs involving very low temperatures
 4. holding big jobs like bolts

Question ID : 6044818753

Status : Not Answered

Chosen Option : --

Q.71 In electric current, the ratio of true power to apparent power is called:

Question ID : 6044818710

- Ans
- 1. Power factor
 - 2. Form factor
 - 3. Frequency
 - 4. Peak factor

Status : Answered
Chosen Option : 1

Q.72 What is the full form of XLPE in an XLPE cable?

- Ans
- 1. Cross-Linked Polyvinyl
 - 2. Cross Polyvinyl
 - 3. Cross-Linked Polyethene
 - 4. Cross-Linked Polyethylene

Question ID : 6044818758
Status : Not Answered
Chosen Option : --

Q.73 For a single phase induction motor, the electrical angle between the starting and running wiring is:

- Ans
- 1. 270°
 - 2. 30°
 - 3. 90°
 - 4. 180°

Question ID : 6044818737
Status : Answered
Chosen Option : 3

Q.74 The electrolyte used in a dry cell is:

- Ans
- 1. Ammonium chloride
 - 2. Magnesium chloride
 - 3. Dilute sulfuric acid
 - 4. Dilute hydrochloric acid

Question ID : 6044818687
Status : Answered
Chosen Option : 1

Q.75 The exciting coils of any DC machine are wound:

- Ans
- 1. separately
 - 2. in the machine
 - 3. around the poles
 - 4. in the armature slots

Question ID : 6044818768
Status : Answered
Chosen Option : 3

Q.76 The direction of rotation of a universal motor can be reversed by:

- Ans
- 1. Switching over from ac to dc
 - 2. Reversing the supply terminals
 - 3. Retaining the brush leads
 - 4. interchanging the brush leads

Question ID : 6044818743
Status : Answered
Chosen Option : 2

Q.77 A DC shunt generator has:

- Ans
- 1. appreciably rising characteristics
 - 2. slightly drooping characteristics

Question ID : 6044818767
Status : Answered
Chosen Option : 2

- 3. appreciably falling characteristics
- 4. constant voltage characteristics

Q.78 In any induction motor, if the number of poles are doubled, then the speed will:

- Ans
- 1. Double
 - 2. Become one fourth
 - 3. Not change
 - 4. Become half

Question ID : 6044818736
Status : Answered
Chosen Option : 4

Q.79 The reciprocal of resistance is _____.

- Ans
- 1. susceptance
 - 2. conductance
 - 3. impedance
 - 4. reactance

Question ID : 6044818756
Status : Answered
Chosen Option : 2

Q.80 Low resistance is measured by ____.

- Ans
- 1. De Sauty's bridge
 - 2. Kelvin's double bridge
 - 3. Maxwell's bridge
 - 4. Win bridge

Question ID : 6044818777
Status : Answered
Chosen Option : 2

Q.81 The thickness of lamination is about _____.

- Ans
- 1. 0.5 mm
 - 2. 2 mm
 - 3. 10 mm
 - 4. 5 mm

Question ID : 6044818770
Status : Answered
Chosen Option : 1

Q.82 The property of a conductor that opposes the flow of current through it is called:

- Ans
- 1. Resistance
 - 2. Current
 - 3. Conductance
 - 4. Voltage

Question ID : 6044818676
Status : Answered
Chosen Option : 1

Q.83 In a three-phase oil-cooled power transformer, the device conservator, breather, explosion vent and Buchholz relay are _____ devices.

- Ans
- 1. chemical
 - 2. magnetic
 - 3. heating
 - 4. protective

Question ID : 6044818716
Status : Answered
Chosen Option : 4

Q.84 Speed "N" of a synchronous motor is given by:

Ans

Question ID : 6044818732
Status : Answered

1. $N = 120 f/p$
 2. $f * p / 120$
 3. $N = 120 p/f$
 4. $N = 120 p$

Chosen Option : 1

Q.85 Which type of bulb is used in a line tester?

- Ans 1. Yellow bulb
 2. Neon bulb
 3. Bayonet cap (BC) bulb
 4. Halogen bulb

Question ID : 6044818672

Status : Not Attempted and
Marked For Review

Chosen Option : --

Q.86 Which electrolyte is used in a dry cell?

- Ans 1. H_2SO_4
 2. NH_4Cl
 3. NHO_2
 4. $CdSO_4$

Question ID : 6044818763

Status : Answered

Chosen Option : 2

Q.87 A device that changes DC supply to AC supply is called:

- Ans 1. Motor generator set
 2. Converter
 3. Rectifier
 4. Inverter

Question ID : 6044818744

Status : Answered

Chosen Option : 4

Q.88 The resistance of a shunt winding is:

- Ans 1. more than the armature resistance
 2. more than the series and armature
 3. more than the series winding resistance
 4. less than the series and armature resistance

Question ID : 6044818769

Status : Answered

Chosen Option : 1

Q.89 Commutator segments are insulated from each other with the help of:

- Ans 1. Oil
 2. PVC
 3. MICA
 4. Wood

Question ID : 6044818698

Status : Answered

Chosen Option : 3

Q.90 Which motor is used for traction work?

- Ans 1. Synchronous motor
 2. Induction motor
 3. DC compound motor

Question ID : 6044818699

Status : Answered

Chosen Option : 4

4. DC series motor

Q.91 In case the field of a synchronous motor is overexcited, the power factor will be:

- Ans 1. Unity
 2. Leading
 3. Zero
 4. Lagging

Question ID : 6044818733

Status : Answered

Chosen Option : 2

Q.92 To change the rotational direction of a DC motor, what needs to be done?

- Ans 1. Direction can't be changed
 2. Change field and armature (both) connections
 3. Reverse field or armature (any one) connection
 4. Interchange supply wires

Question ID : 6044818700

Status : Answered

Chosen Option : 3

Q.93 Permanent magnet moving coil instruments are used with _____ supply only.

- Ans 1. electric
 2. pulsating
 3. DC
 4. AC

Question ID : 6044818723

Status : Answered

Chosen Option : 3

Q.94 The full form of ACSR in ACSR wire is:

- Ans 1. Aluminium conductor super reinforced
 2. Aluminium current steel reinforced
 3. Aluminium conductor super resistance
 4. Aluminium conductor steel reinforced

Question ID : 6044818679

Status : Answered

Chosen Option : 4

Q.95 An alternator works on electromagnetic induction, based on the law of:

- Ans 1. Lenz's
 2. Ohm's
 3. Ampere's
 4. Faraday's

Question ID : 6044818718

Status : Answered

Chosen Option : 4

Q.96 A bird sitting on one of the line conductor of a three-phase line will:

- Ans 1. fall down
 2. receive an electric shock but does not die
 3. be safe
 4. receive an electric shock and die

Question ID : 6044818750

Status : Answered

Chosen Option : 3

Q.97 Moving iron-type instruments are used on ____.

Ans

Question ID : 6044818781

Status : Answered

- 1. AC supply only
- 2. DC supply only
- 3. both AC and DC supply
- 4. neither on AC nor on DC supply

Chosen Option : 3

Q.98 For an induction motor with the power of 10 HP, the induction motor starter will be:

- Ans
- 1. Star-delta starter
 - 2. DOL starter
 - 3. Resistance type starter
 - 4. Auto transformer starter

Question ID : 6044818735

Status : Answered

Chosen Option : 2

Q.99 An electrical fire should only be extinguished by:

- Ans
- 1. the use of foam-type fire extinguishers
 - 2. the use of carbon tetrachloride fire extinguishers
 - 3. the use of soda-acid-type fire extinguishers
 - 4. the use of water

Question ID : 6044818751

Status : Answered

Chosen Option : 2

Q.10₀ HRC fuse stands for:

- Ans
- 1. High running capacity fuse
 - 2. Heavy rupturing capacity fuse
 - 3. High rupturing capacity fuse
 - 4. High resistance capacity fuse

Question ID : 6044818747

Status : Answered

Chosen Option : 3

Q.10₁ The work done by a starter in a DC motor is:

- Ans
- 1. Controlling starting current
 - 2. Reducing back emf
 - 3. Reducing armature resistance
 - 4. Increasing resistance in the field circuit

Question ID : 6044818702

Status : Answered

Chosen Option : 1

Q.10₂ The combination of a three-phase induction motor and DC generator is called:

- Ans
- 1. Invertor set
 - 2. Motor generator set (MG SET)
 - 3. Motor alternator set
 - 4. Motor condenser set

Question ID : 6044818745

Status : Answered

Chosen Option : 2

Q.10₃ Overload relay protects a motor from:

- Ans
- 1. Loss current
 - 2. Low voltage

Question ID : 6044818748

Status : Answered

Chosen Option : 3

3. Over current
 4. Over voltage

Q.10 In cable insulation test by megger between phase to phase and phase to neutral, resistance should NOT be less than:
4

- Ans 1. 1 megaohm
 2. 5000 Ω
 3. 1500 Ω
 4. 2000 Ω

Question ID : 6044818701
 Status : Not Answered
 Chosen Option : --

Q.10 The flow of electrons is called:
5

- Ans 1. Frequency
 2. Voltage
 3. Electric current
 4. Resistance

Question ID : 6044818674
 Status : Answered
 Chosen Option : 3

Q.10 The current coil of single-phase energy meter is wound on:
6

- Ans 1.
 both the limbs of the laminated core with same number of turns
 2.
 both the limbs of the laminated core with different turns
 3. the centre of the limb on the laminated core
 4. one limb of the laminated core

Question ID : 6044818778
 Status : Not Answered
 Chosen Option : --

Q.10 The tool used for the accurate measurement of 90° angles is:
7

- Ans 1. Wooden scale
 2. Try square
 3. Plumb bob
 4. Steel tape

Question ID : 6044818673
 Status : Answered
 Chosen Option : 2

Q.10 The voltage supplied by one cell of a lead-acid battery is:
8

- Ans 1. approximately 2 V
 2. approximately 1.2 V
 3. approximately 1.5 V
 4. approximately 0.8 V

Question ID : 6044818762
 Status : Answered
 Chosen Option : 1

Q.10 Which type of motor is used in an electric mixer?
9

- Ans 1. Split phase motor
 2. Universal motor
 3. Permanent capacitor motor

Question ID : 6044818742
 Status : Answered
 Chosen Option : 2

4. Shaded pole motor

Q.11
0 Which two major parts are found in any electrical machine?

- Ans 1. Carbon brush and rotor
 2. Main pole and interpole
 3. Commutator and interpole
 4. Stator and rotor

Question ID : 6044818694

Status : Answered

Chosen Option : 4

Q.11
1 The unit of luminous flux is ____.

- Ans 1. lux
 2. lumen
 3. candela
 4. meter candle

Question ID : 6044818782

Status : Answered

Chosen Option : 2

Q.11
2 The difference between the printed and effective value of resistance is called:

- Ans 1. Specific resistance
 2. Thermistors
 3. Power factor
 4. Tolerance

Question ID : 6044818691

Status : Answered

Chosen Option : 4

Q.11
3 Geyser, electric iron and heater all work on the principle of:

- Ans 1. Lighting effect
 2. Magnetic effect
 3. Heating effect
 4. Chemical effect

Question ID : 6044818692

Status : Answered

Chosen Option : 3

Q.11
4 Which of the following is NOT a part of a squirrel-cage induction motor?

- Ans 1. Shaft
 2. Stator
 3. Rotor
 4. Carbon brushes

Question ID : 6044818785

Status : Answered

Chosen Option : 4

Q.11
5 Centrifugal switch is disconnect on _____ of maximum speed.

- Ans 1. 90 %
 2. 50 %
 3. 75 %
 4. 25 %

Question ID : 6044818740

Status : Answered

Chosen Option : 3

Q.11
6 If the peak value of AC voltage is 500V, what would be the RMS value?

- Ans 1. 400 Volt

Question ID : 6044818712

Status : Answered

- 2. 550 Volt
- 3. 500 Volt
- 4. 353.5 Volt

Chosen Option : 4

Q.11
7 Earth leakage circuit breaker is also known as:

- Ans
- 1. Molded case circuit breaker
 - 2. Miniature circuit breaker
 - 3. Residual current circuit breaker
 - 4. Oil circuit breaker

Question ID : 6044818708

Status : Answered

Chosen Option : 3

Q.11
8 The emf equation of a DC generator is:

- Ans
- 1. $E = Q \cdot N \cdot Z \cdot A / 60 \cdot P$
 - 2. $E = Q \cdot N \cdot Z \cdot A / 60$
 - 3. $E = Q \cdot N \cdot Z \cdot P / 60 \cdot A$
 - 4. $E = Q \cdot N \cdot Z / 60 \cdot P \cdot A$

Question ID : 6044818695

Status : Answered

Chosen Option : 3

Q.11
9 Which of the below is correct as per Ohm's law?

- Ans
- 1. $V = R - I$
 - 2. $V = I - R$
 - 3. $V = I + R$
 - 4. $V = IR$

Question ID : 6044818682

Status : Answered

Chosen Option : 4

Q.12
0 In wave winding how many paths are Parallel to "A"?

- Ans
- 1. A = 8
 - 2. A = 4
 - 3. A = 6
 - 4. A = 2

Question ID : 6044818731

Status : Answered

Chosen Option : 4

Section : General English

Comprehension:

Read the following passage and answer the questions given:

Gir forest and other protected areas around it—Pania Wildlife Sanctuary, Mitiyala Wildlife Sanctuary, Girnar Wildlife Sanctuary, Amreli social forestry division and Bhavnagar—is the last abode of the Asiatic lion. Once spread across many parts of Asia, Asiatic lions were restricted to Gir forest by the beginning of the 20th century. Rampant hunting over previous centuries had reduced their population to just a few dozen surviving in Gir. But Rasulkhanji Babi, then Nawab of

the erstwhile state of Junagadh, put a ban on the hunting of the big cats and helped recover their population from the brink of extinction. Gir forest was declared a sanctuary in 1965. Subsequently, in 1975, 258.71 sq. km of the Gir sanctuary was declared a National Park where strict wildlife and forest laws were put in place. Today, lions have extended their territory beyond the Gir forest and are ranging other protected areas spread across Junagadh, Gir Somnath, Amreli and Bhavnagar districts in Saurashtra region.

The lion population has seen a steady growth over the last four decades. International Union for Conservation of Nature (IUCN), a global body working for conservation of the natural world, had categorised Asiatic lions as a critically endangered species in 2000 when the population of the big cat was around 300 as per the 1995 population estimation exercise. But, as the population of the carnivore improved to 359 individuals by the year 2005, the risk level was downgraded by IUCN. Their population improved to 411 by 2010 and to 523 by 2015. The big cats, however, continue to be an endangered species on IUCN Red List of Threatened Species on the grounds of the size of its population and the fact that the Asiatic lions are surviving in one subpopulation.

The population growth of 27.25 per cent between 2010 and 2015 was the highest in the recorded history of Gir. Among all the four districts with lion population, Amreli had recorded the highest—61 per cent growth. The number of Asiatic lions in Amreli went up from 108 in 2010 to 174 in 2015. This rate was only 16 per cent in Junagadh-Gir Somnath and 12 per cent in Bhavnagar. More interestingly, the population of lions living outside protected areas (PA) or on agro-pastoral land grew by a hefty 126 per cent in the five years taking their number to 167 from 74.

SubQuestion No : 1

Q.1 In which district was the population growth of the Asiatic lions was the highest?

- Answers
- 1. Amreli
 - 2. Junagarh
 - 3. Bhavnagar
 - 4. Gir Somnath

Question ID : 6044818793

Status : Answered

Chosen Option : 1

Comprehension:

Read the following passage and answer the questions

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SubQuestion No : 2

Q.2 It can be inferred from the passage that _____.

An
s 1.

the population of Asiatic lions has seen a steady downfall since 2000.

 2.

Asiatic lions have always lived in the Gir and nearby areas.

 3.

since the early 19th century, the Asiatic lions have been confined to Gir forest.

 4.

before the 20th century, Asiatic lions were spread in many parts of Asia.

Question ID : 6044818792

Status : Answered

Chosen Option : 3

Comprehension:

Read the following passage and answer the questions given:

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SubQuestion No : 3

Q.3 In the year 2005, what was the count of the Asiatic lions in the protected area of Gir Forest?

- Answers
- 1. 300 lions
 - 2. 411 lions
 - 3. 359 lions
 - 4. 523 lions

Question ID : 6044818794

Status : Answered

Chosen Option : 3

Comprehension:

Read the following passage and answer the questions given:

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SubQuestion No : 4

Q.4 Why are the Asiatic lions on the Red List of the International Union For Conservation of Nature (IUCN)?

- Ans
- 1. They are surviving in one subpopulation.
 - 2. They are threatened by poachers and diseases.
 - 3. Their population is increasing slowly.
 - 4. Their growth rate is going down steadily.

Question ID : 6044818795

Status : Answered

Chosen Option : 1

Comprehension:

Read the following passage and answer the questions

given:

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SubQuestion No : 5

Q.5 By reading the above passage, it can be said that this is _____.

- Ans
- 1. an note on the history of Asiatic lions
 - 2. a research report on the growth rate of the Asiatic lions
 - 3. a news item on the Asiatic lion
 - 4. an article on the survival of Asiatic lions

Question ID : 6044818791

Status : Answered

Chosen Option : 2

Q.6 Choose the option which has an error.
Scarcely was / the whistle blow / before the athletes / leapt forward.

- Ans
- 1. leapt forward
 - 2. before the athletes
 - 3. the whistle blow
 - 4. Scarcely was

Question ID : 6044818805

Status : Answered

Chosen Option : 3

Q.7 Choose the option that is the correct indirect form of the given sentence.
He said to her, "Why are you looking so sad?"

- Ans
- 1. He asked her why she is sad.
 - 2. He asked her why she was sad.
 - 3. He asked her why she was looking so sad.
 - 4. He asked her why she is looking so sad.

Question ID : 6044818803

Status : Answered

Chosen Option : 3

Q.8 Choose the option that is the synonym of the given word.
Eternal

- Ans
- 1. External
 - 2. Everlasting
 - 3. Short-term
 - 4. Expert

Question ID : 6044818797

Status : Answered

Chosen Option : 2

Q.9 Choose the option that is the synonym of the given word.
Vital

- Ans
- 1. Normal
 - 2. Satisfactory
 - 3. Quick
 - 4. Important

Question ID : 6044818796

Status : Answered

Chosen Option : 4

Q.10 Choose the option that is the meaning of the underlined idiom.
You can't go out. It's raining cats and dogs.

Question ID : 6044818800

Status : Answered

- Ans 1. Dogs chasing cats
 2. Intermittent rain
 3. Raining heavily
 4. Rain falling on cats and dogs

Chosen Option : 3

Q.11 Choose the option that is the antonym of the given word.
 Harmony

- Ans 1. Unity
 2. Order
 3. Imbalance
 4. Evenness

Question ID : 6044818798

Status : Answered

Chosen Option : 3

Q.12 Choose the option which has an error.
 Tagore Gitanjali / is a / collection of / short poems.

- Ans 1. short poems.
 2. collection of
 3. is a
 4. Tagore Gitanjali

Question ID : 6044818804

Status : Answered

Chosen Option : 4

Q.13 Choose the correct option to fill in the blanks.
 This is the _____ news from the scene of the accident.

- Ans 1. farthest
 2. late
 3. further
 4. latest

Question ID : 6044818801

Status : Answered

Chosen Option : 4

Q.14 Choose the option that is the antonym of the given word.
 Adhere

- Ans 1. Disregard
 2. Agree
 3. Support
 4. Comply

Question ID : 6044818799

Status : Answered

Chosen Option : 2

Q.15 Choose the option that is the correct indirect form of the given sentence.
 Abhinav said, "I am going to play the drums."

- Ans 1.
 Abhinav said that he was going to play the drums.
 2.
 Abhinav said that he will go and play the drums.
 3. Abhinav said that he is playing the drums.

Question ID : 6044818802

Status : Answered

Chosen Option : 1

4.

Abhinav said that he is going to play the drums.

Section : Reasoning

Q.1 Choose the pair that is similar to the given pair.

Snake : Hiss :: _____ : _____

Ans 1. Donkey : Bray

2. Bird : Fly

3. Frog : Mew

4. Cat : Kitten

Question ID : 6044818808

Status : Answered

Chosen Option : 1

Q.2 Punitha starts from her office towards west. After walking a distance of 25 m, she turns right and walks 15 m. She then turns left and moves a distance of 10 m. She turns to her left again and walks 35 m. She turns to the left and walks 5 m. Finally, she turns to her left. In which direction is she walking now?

Ans 1. North

2. East

3. West

4. South

Question ID : 6044818806

Status : Answered

Chosen Option : 1

Q.3 Find the term which does NOT fit into the given series:

1BU, 5FQ, 9JM, 13NI, 17SE, 21VA

Ans 1. 17SE

2. 21VA

3. 9JM

4. 5FQ

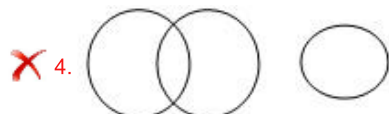
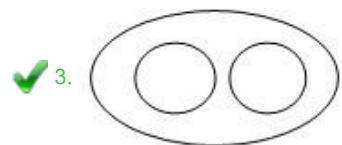
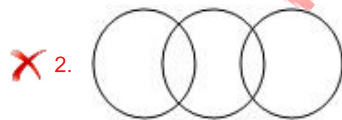
Question ID : 6044818807

Status : Answered

Chosen Option : 1

Q.4 Which of the following Venn diagrams correctly represents Tiger, Elephant and Animals?

Ans



Question ID : 6044818816

Status : Answered

Chosen Option : 3

Q.5 Which one of the following four interchanges in signs and numbers would make the given equation correct?
(25 ÷ 25) + 6 - 5 = 2

Question ID : 6044818815

- Ans 1. + and - , 5 and 6
 2. - and ÷ , 6 and 5
 3. + and - , 25 and 5
 4. + and ÷ , 25 and 6

Status : Answered
 Chosen Option : 1

Q.6 Read the following information carefully and answer the question given below:

'M + N' means 'M is the son of N';
 'M - N' means 'M is the wife of N';
 'M × N' means 'M is the brother of N'

What does $X + Y - Z$ mean?

- Ans 1. Z is the father of X
 2. Z is the brother of X
 3. Z is the uncle of X
 4. Z is the son of X

Question ID : 6044818819
 Status : Answered
 Chosen Option : 1

Q.7 Identify the odd one from the following options:

- Ans 1. School
 2. Director
 3. Actor
 4. Cinema

Question ID : 6044818810
 Status : Answered
 Chosen Option : 1

Q.8 In a certain code, WIND is written as UGLB. How will SEASON be written in that code?

- Ans 1. QCZQML
 2. QCYQML
 3. QCYQNL
 4. QCYPML

Question ID : 6044818809
 Status : Answered
 Chosen Option : 2

Q.9 Consider the following statements to be true even if they seem to be at variance from commonly known facts and decide which of the conclusions logically follows from the statements.

Statements:

- All boats are cups.
- No cup is a flower.

Conclusions:

- I. Some boats are flowers.
- II. Some flowers are cups.

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

Question ID : 6044818814
 Status : Answered
 Chosen Option : 2

Q.10 Choose the pair that is similar to the following pair:

15 : 256 :: _____ : _____

- Ans 1. 14 : 196
 2. 10 : 1000

Question ID : 6044818817
 Status : Answered
 Chosen Option : 3

✓ 3. 29 : 900

✗ 4. 20 : 440

Q.11 Identify the odd one from the following options:

Ans ✗ 1. Yen

✗ 2. Dollar

✓ 3. Oslo

✗ 4. Rial

Question ID : 6044818820

Status : Answered

Chosen Option : 3

Q.12 Find the number which when added to itself 14 times gives 225.

Ans ✓ 1. 15

✗ 2. 14

✗ 3. 20

✗ 4. 17

Question ID : 6044818818

Status : Answered

Chosen Option : 1

Q.13 In the following question, if the letters of the given words are used as many times as one wants to use them, which one of the given four options CANNOT be formed?

POPULATION

Ans ✗ 1. LOTION

✗ 2. TUTION

✗ 3. NATION

✓ 4. ACTION

Question ID : 6044818812

Status : Answered

Chosen Option : 4

Q.14 In the series 3, 6, 12, 24, _____, what will be the 11th term?

Ans ✗ 1. 1072

✓ 2. 3072

✗ 3. 3027

✗ 4. 1027

Question ID : 6044818821

Status : Answered

Chosen Option : 2

Q.15 Find the missing number from the following:

64	100	144
25	169	1
81	196	256
22	37	?

Ans ✗ 1. 28

✗ 2. 27

✗ 3. 31

✓ 4. 29

Question ID : 6044818813

Status : Answered

Chosen Option : 4

Q.16 Murali is 14th from the right-end in a row of 40 students. What is his position from the left-end?

- Ans 1. 27th
 2. 26th
 3. 28th
 4. 25th

Question ID : 6044818811
 Status : Answered
 Chosen Option : 1

Q.17 Find the missing term in the following table:

5E	35F	7G
9I	?	10K
12L	180M	15N

- Ans 1. 91J
 2. 99J
 3. 19J
 4. 90J

Question ID : 6044818822
 Status : Answered
 Chosen Option : 4

Section : Quantitative Aptitude

Q.1 A shopkeeper sold an article at a discount of 20% on the marked price and earned a profit of 16%. Had he sold the article at marked price, what would be his profit percent?

- Ans 1. 38 %
 2. 36 %
 3. 40 %
 4. 45 %

Question ID : 6044818833
 Status : Answered
 Chosen Option : 4

Q.2 A boat goes 20 km upstream and 30km downstream in 2 hours 32 minutes. If speed of stream is 5 km/h, what is speed of boat in still water in km/h?

- Ans 1. 30
 2. 15
 3. 25
 4. 20

Question ID : 6044818836
 Status : Answered
 Chosen Option : 4

Q.3 A sum of money is divided among A, B, C and D in the proportion of $\frac{3}{4} : \frac{4}{5} : \frac{6}{7} : \frac{7}{8}$. If B gets ₹ 70 more than A, then what is the share of D?

- Ans 1. ₹ 1,025
 2. ₹ 990
 3. ₹ 1,175
 4. ₹ 1,225

Question ID : 6044818827
 Status : Answered
 Chosen Option : 4

Q.4 Two pipes A and B can fill a tank in 60 minutes and 80 minutes respectively, whereas the third pipe C can empty the full tank in 120 minutes. If all three pipes are opened together, in how many minutes the tank will be filled?

- Ans 1. 42
 2. 48

Question ID : 6044818839
 Status : Answered
 Chosen Option : 2

3. 45

4. 52

Q.5 A solid sphere of radius 5 cm is melted and recast into solid cylinders of height 2 cm and radius 1 cm. How many such cylinders can be formed?

Ans 1. 84

2. 78

3. 75

4. 83

Question ID : 6044818831

Status : Answered

Chosen Option : 4

Q.6 What is the sum of digits of the least number which when divided by 8, 10, 12 and 27 leaves remainder 9 in each case and is divisible by 13?

Ans 1. 19

2. 17

3. 16

4. 18

Question ID : 6044818825

Status : Answered

Chosen Option : 4

Q.7 The value of a machine depreciates every years by 10%. If the present value of the machine is ₹ 80,000, what is the percent decrease in its value at the end of 3 years?

Ans 1. 28.4 %

2. 27.1 %

3. 29.2 %

4. 30 %

Question ID : 6044818838

Status : Answered

Chosen Option : 2

Q.8 In a class test, out of 200 students, 62 % passed in Hindi and 58 % passed in English. If 25 % of the number of students failed in both, how many passed in both subjects?

Ans 1. 90

2. 55

3. 110

4. 45

Question ID : 6044818832

Status : Answered

Chosen Option : 1

Q.9 What is the sum of mean proportional between 1.4 and 35 and the third proportional to 6 and 9?

Ans 1. 20.5

2. 18.5

3. 16.5

4. 21.5

Question ID : 6044818828

Status : Answered

Chosen Option : 1

Q.10 The value of $0.4\overline{6} - 0.5\overline{89} + 0.3\overline{33}$ is equal to:

Ans 1. $0.2\overline{11}$

2. $0.2\overline{14}$

3. $0.2\overline{10}$

4. $0.2\overline{1}$

Question ID : 6044818826

Status : Answered

Chosen Option : 2

Q.11 Two vessels A and B contains spirit and water in the ratio 2 : 3 and 7 : 3 respectively. Their contents are mixed in the ratio 4 : 5. In 360 mL of this solution, how much water should be mixed to get a solution containing equal quantity of spirit and water by volume?

Ans 1. 45 mL

2. 52 mL

Question ID : 6044818829

Status : Answered

Chosen Option : 2

✓ 3. 48 mL

✗ 4. 56 mL

Q.12 The sides of a triangle are 10 cm, 24 cm and 26 cm. At each vertex of the triangle, circles of radius 3 cm are drawn. What is the area of the triangle in cm^2 , excluding the portion enclosed by circles? ($\pi = 3.14$)

Ans ✗ 1. 102.37

✗ 2. 91.74

✓ 3. 105.87

✗ 4. 96.82

Question ID : 6044818830

Status : Answered

Chosen Option : 4

Q.13 If, $\sqrt{21 - 12\sqrt{3}} = a + b\sqrt{3}$, then $(2a + 3b)$ is equal to:

Ans ✗ 1. 6

✗ 2. 8

✓ 3. 0

✗ 4. 5

Question ID : 6044818840

Status : Answered

Chosen Option : 3

Q.14 The average of 31 numbers is 48. Out of these, the average of first 16 numbers is 38 and the average of last 16 number is 58. If the middle number is excluded, what is the average of remaining numbers?

Ans ✗ 1. 52

✗ 2. 45

✗ 3. 50

✓ 4. 48

Question ID : 6044818834

Status : Answered

Chosen Option : 4

Q.15 The value of $5^2 - 6^2 + 7^2 - 8^2 + 9^2 - 10^2 + \dots + 19^2 - 20^2$ is:

Ans ✗ 1. - 230

✗ 2. - 220

✗ 3. - 210

✓ 4. - 200

Question ID : 6044818823

Status : Answered

Chosen Option : 4

Q.16 The efficiency of A and B to do a work is in the ratio 3 : 5. Working together they can complete a work in 30 days. In how many days A alone will complete that work?

Ans ✗ 1. 56

✓ 2. 80

✗ 3. 72

✗ 4. 48

Question ID : 6044818837

Status : Answered

Chosen Option : 2

Q.17 If a train runs with the speed of 90 km/h, it reaches its destination late by 12 minutes. But, if it speed is 100 km/h, it is late by 2 minutes. The correct time to the train to covers it journey in minutes is:

Ans ✗ 1. 78

✗ 2. 84

✓ 3. 88

✗ 4. 128

Question ID : 6044818835

Status : Not Answered

Chosen Option : --

Q.18 The HCF and LCM of two numbers are 12 and 360 respectively. If the sum of the numbers is 132, what is sum of their reciprocals?

Ans ✓ 1. $\frac{11}{360}$

Question ID : 6044818824

Status : Answered

Chosen Option : 1

~~2.~~ $\frac{1}{60}$

~~3.~~ $\frac{13}{180}$

~~4.~~ $\frac{1}{36}$

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