

BHEL Artisan

**Previous Year Paper
(Electrician)
08 Oct, 2025**



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ARTISAN RECRUITMENT - 2025

Participant ID	
Participant Name	
Test Center Name	
Test Date	08/10/2025
Test Time	2:00 PM - 3:30 PM
Subject	Electrician

Section : Trade Theory

Q.1 What is the reactive power supplied by a 1-phase AC circuit for which $V = 10\angle -30^\circ$ Volt and $I = 10\angle -30^\circ$ ampere?

- Ans ☒ A. 86.6 VAR
☒ B. 86 VA
☒ C. 100 VA
☒ D. 0 VAR

Question ID : 4410091170539
Option 1 ID : 4410094616453
Option 2 ID : 4410094616452
Option 3 ID : 4410094616454
Option 4 ID : 4410094616451
Status : Answered
Chosen Option : A

Q.2 In V/f control of a three-phase induction motor, what happens if frequency is reduced but the voltage remains unchanged?

- Ans ☒ A. Motor speed increases
☒ B. Motor torque decreases
☒ C. Motor causes saturation
☒ D. Motor stops running

Question ID : 4410091188270
Option 1 ID : 4410094687346
Option 2 ID : 4410094687345
Option 3 ID : 4410094687347
Option 4 ID : 4410094687348
Status : Answered
Chosen Option : A

Q.3 What is the main use of a hacksaw in fitting work?

- Ans ☐ A. To measure the length of components accurately and quickly
- ☐ B. To tighten screws and bolts during assembly work
- ☒ C. To cut metal rods or plastic pipes with fine teeth
- ☐ D. To bend wires or thin metal sheets safely and efficiently

Question ID : 4410091196827

Option 1 ID : 4410094721255

Option 2 ID : 4410094721254

Option 3 ID : 4410094721256

Option 4 ID : 4410094721257

Status : Answered

Chosen Option : C

Q.4 What is the fundamental principle behind the operation of a three-phase induction motor?

- Ans ☐ A. Static friction
- ☒ B. Electromagnetic induction
- ☐ C. Mutual capacitance
- ☐ D. Back EMF

Question ID : 4410091196566

Option 1 ID : 4410094720163

Option 2 ID : 4410094720165

Option 3 ID : 4410094720162

Option 4 ID : 4410094720164

Status : Answered

Chosen Option : B

Q.5 Which of the following types of electrical switches is shown in the given figure?



- Ans ☐ A. Four-pole switch
- ☒ B. Intermediate switch
- ☐ C. Multi position switch
- ☐ D. Two-way switch

Question ID : 4410091205472

Option 1 ID : 4410094755421

Option 2 ID : 4410094755420

Option 3 ID : 4410094755419

Option 4 ID : 4410094755422

Status : Answered

Chosen Option : B

Q.6 If a person is bleeding severely from a cut on their arm, what is the most important immediate action to take?

- Ans ☒ A. Ask the person to move the arm to check for range of motion.
- ☒ B. Apply a tourniquet above the wound.
- ☒ C. Apply direct pressure to the wound with a clean cloth.
- ☒ D. Wash the wound with water.

Question ID : 4410091215629

Option 1 ID : 4410094795898

Option 2 ID : 4410094795895

Option 3 ID : 4410094795896

Option 4 ID : 4410094795897

Status : Answered

Chosen Option : C

Q.7 When starting to measure current, what setting should one choose first on the multimeter?

- Ans ☒ A. Lowest current range
- ☒ B. Voltage setting
- ☒ C. Continuity mode
- ☒ D. Highest current range

Question ID : 4410091212742

Option 1 ID : 4410094784351

Option 2 ID : 4410094784353

Option 3 ID : 4410094784354

Option 4 ID : 4410094784352

Status : Answered

Chosen Option : D

Q.8 In a basic AC generator, what causes the sinusoidal variation of EMF?

- Ans ☒ A. Moving magnet
- ☒ B. Magnetic shielding
- ☒ C. Rotating coil in uniform magnetic field
- ☒ D. Stationary coil in varying field

Question ID : 4410091196462

Option 1 ID : 4410094719704

Option 2 ID : 4410094719705

Option 3 ID : 4410094719702

Option 4 ID : 4410094719703

Status : Answered

Chosen Option : D

Q.9 What is a grounding system's primary purpose, especially with regard to current?

- Ans ☒ A. To prevent voltage accumulation by carrying fault currents to the earth
- ☒ B. To give positive and negative sequence currents a way to travel
- ☒ C. To isolate the system from the ground
- ☒ D. To make the electrical system more resistant

Question ID : 4410091286892

Option 1 ID : 4410095079362

Option 2 ID : 4410095079363

Option 3 ID : 4410095079361

Option 4 ID : 4410095079364

Status : Answered

Chosen Option : A

Q.10 Which type of PLC is best suited for small, standalone applications with a limited number of I/O points, such as controlling a single machine?

- Ans ☒ A. Distributed PLC
☒ B. Modular PLC
☒ C. Compact PLC
☒ D. Rack-mounted PLC

Question ID : 4410091247139
 Option 1 ID : 4410094921792
 Option 2 ID : 4410094921790
 Option 3 ID : 4410094921791
 Option 4 ID : 4410094921789
 Status : Answered
 Chosen Option : B

Q.11 In a series RLC circuit, what condition must be met for the power factor to be leading?

- Ans ☒ A. Inductive reactance (XL) is equal to capacitive reactance (XC).
☒ B. Resistance (R) is greater than the total reactance.
☒ C. Capacitive reactance (XC) is greater than inductive reactance (XL).
☒ D. Inductive reactance (XL) is greater than capacitive reactance (XC).

Question ID : 4410091187392
 Option 1 ID : 4410094683754
 Option 2 ID : 4410094683755
 Option 3 ID : 4410094683756
 Option 4 ID : 4410094683757
 Status : Answered
 Chosen Option : C

Q.12 A plan note on an electrical drawing that says 'Install 6x6x4 Junction Box' refers to which aspect of the installation?

- Ans ☒ A. The size of the circuit breaker.
☒ B. The number of wires to be installed in the box.
☒ C. The required size of the junction box in inches.
☒ D. The type of conduit to be used.

Question ID : 4410091233687
 Option 1 ID : 4410094868413
 Option 2 ID : 4410094868415
 Option 3 ID : 4410094868416
 Option 4 ID : 4410094868414
 Status : Answered
 Chosen Option : C

Q.13 Which of the following analog instruments uses fluid friction damping?

- Ans ☒ A. Moving iron instrument
☒ B. Dynamometer type wattmeter
☒ C. PMMC instrument
☒ D. Electrostatic voltmeter

Question ID : 4410091209824
 Option 1 ID : 4410094772803
 Option 2 ID : 4410094772805
 Option 3 ID : 4410094772802
 Option 4 ID : 4410094772804
 Status : Answered
 Chosen Option : A

Q.14 Which connection is used to reduce error in power measurement using a wattmeter?

- Ans ☒ A. Connect current coil across load side
☒ B. Connect current coil across supply side
☒ C. Connect pressure coil across supply side
☒ D. Connect pressure coil across load side

Question ID : 4410091209836

Option 1 ID : 4410094772851

Option 2 ID : 4410094772853

Option 3 ID : 4410094772850

Option 4 ID : 4410094772852

Status : Answered

Chosen Option : A

Q.15 Which of the following is a feature of modular PLCs?

- Ans ☒ A. Ideal for small applications only
☒ B. No separate power supply
☒ C. Can be expanded with additional modules
☒ D. All components are fixed and non-expandable

Question ID : 4410091196372

Option 1 ID : 4410094719283

Option 2 ID : 4410094719285

Option 3 ID : 4410094719284

Option 4 ID : 4410094719282

Status : Answered

Chosen Option : A

Q.16 The collector-base junction needs to be _____ and the base-emitter junction needs to be _____ for a PNP transistor to function efficiently as an amplifier.

- Ans ☒ A. reverse-biased, forward-biased
☒ B. forward-biased, reverse-biased
☒ C. reverse-biased, reverse-biased
☒ D. forward-biased, forward-biased

Question ID : 4410091286874

Option 1 ID : 4410095079289

Option 2 ID : 4410095079290

Option 3 ID : 4410095079291

Option 4 ID : 4410095079292

Status : Answered

Chosen Option : B

Q.17 In a parallel circuit, a 5 Ω resistor is connected in parallel with a 10 Ω resistor across a 20 V voltage source. What is the current flowing through the 10 Ω resistor?

- Ans ☒ A. 6 A
☒ B. 4 A
☒ C. 0.5 A
☒ D. 2 A

Question ID : 4410091187787

Option 1 ID : 4410094685468

Option 2 ID : 4410094685467

Option 3 ID : 4410094685469

Option 4 ID : 4410094685466

Status : Answered

Chosen Option : B

Q.18 What is the primary purpose of using a growler to test a DC motor armature?

- Ans ☒ A. To check the balance of the armature to prevent vibration
☒ B. To measure the armature winding's insulation resistance
☒ C. To detect short circuits, open circuits, and grounded coils in the armature winding
☒ D. To magnetise the field poles of the motor

Question ID : 4410091196297

Option 1 ID : 4410094718925

Option 2 ID : 4410094718924

Option 3 ID : 4410094718926

Option 4 ID : 4410094718927

Status : Not Answered

Chosen Option : --

Q.19 Which of the following will increase the induced EMF in an alternator?

- Ans ☒ A. Reduce the air gap between the stator and rotor
☒ B. Increase the reluctance of the magnetic path
☒ C. Use fractional pitch winding in the stator
☒ D. Reduce the magnetic flux density in the rotor

Question ID : 4410091180059

Option 1 ID : 4410094654357

Option 2 ID : 4410094654356

Option 3 ID : 4410094654358

Option 4 ID : 4410094654359

Status : Answered

Chosen Option : C

Q.20 Overcharging a battery typically results in:

- Ans ☒ A. Reduced internal resistance
☒ B. Increase in energy output
☒ C. Improved efficiency
☒ D. Reduction in battery life

Question ID : 4410091196807

Option 1 ID : 4410094721169

Option 2 ID : 4410094721166

Option 3 ID : 4410094721167

Option 4 ID : 4410094721168

Status : Answered

Chosen Option : D

Q.21 Which factor should be considered first when selecting a site for installing an earth electrode to achieve low earth resistance?

- Ans ☒ A. Soil resistivity at the location
☒ B. Shape of the electrode
☒ C. Distance from the main distribution board
☒ D. Type of electrical load connected

Question ID : 4410091196723

Option 1 ID : 4410094720815

Option 2 ID : 4410094720816

Option 3 ID : 4410094720814

Option 4 ID : 4410094720817

Status : Answered

Chosen Option : A

Q.22 Which is the last step in a 5S concept used for improvement in an organisation?

- Ans ☐ A. Sorting out needed items
☐ B. Arranging item systematically
☐ C. Keep the workplace shine
☒ D. Maintain established procedure

Question ID : 4410091209865
 Option 1 ID : 4410094772966
 Option 2 ID : 4410094772967
 Option 3 ID : 4410094772968
 Option 4 ID : 4410094772969
 Status : Answered
 Chosen Option : C

Q.23 What is the preferred dimension of the copper plate used in plate earthing?

- Ans ☐ A. 50 cm × 50 cm × 6.30 mm
☐ B. 60 cm × 40 cm × 3.15 mm
☐ C. 60 cm × 60 cm × 6.30 cm
☒ D. 60 cm × 60 cm × 3.15 mm

Question ID : 4410091205438
 Option 1 ID : 4410094755286
 Option 2 ID : 4410094755285
 Option 3 ID : 4410094755284
 Option 4 ID : 4410094755283
 Status : Answered
 Chosen Option : C

Q.24 Which of the following is used in a control panel to protect against short circuits and overloads?

- Ans ☐ A. Contactor
☐ B. Busbar
☐ C. Indicator lamp
☒ D. MCB

Question ID : 4410091212991
 Option 1 ID : 4410094785339
 Option 2 ID : 4410094785341
 Option 3 ID : 4410094785342
 Option 4 ID : 4410094785340
 Status : Answered
 Chosen Option : D

Q.25 What is the primary function of a Miniature Circuit Breaker (MCB)?

- Ans ☐ A. To stabilise voltage
☐ B. To convert AC to DC
☐ C. To increase current
☒ D. To protect circuits from overload and short circuit

Question ID : 4410091196654
 Option 1 ID : 4410094720531
 Option 2 ID : 4410094720530
 Option 3 ID : 4410094720533
 Option 4 ID : 4410094720532
 Status : Answered
 Chosen Option : D

Q.26 Which change is required for a DC series motor to rotate at a speed higher than its rated speed?

- Ans ☒ A. Reversing the polarity of the magnets
☒ B. Increasing the number of turns on the coil
☒ C. Reducing the magnetic field strength
☒ D. Increasing the armature resistance

Question ID : 4410091188216

Option 1 ID : 4410094687124

Option 2 ID : 4410094687121

Option 3 ID : 4410094687122

Option 4 ID : 4410094687123

Status : Answered

Chosen Option : D

Q.27 What is the preferred size of an earth wire for domestic installations, as per Indian standard?

- Ans ☒ A. Equal to the conductor size
☒ B. Half of the conductor size
☒ C. Two times the conductor size
☒ D. One-fourth of the conductor size

Question ID : 4410091205453

Option 1 ID : 4410094755345

Option 2 ID : 4410094755343

Option 3 ID : 4410094755344

Option 4 ID : 4410094755346

Status : Answered

Chosen Option : B

Q.28 Which of the following is NOT a benefit of using the 5S concept in an organisation?

- Ans ☒ A. High-quality work with better productivity
☒ B. Work at the workplace becomes more difficult
☒ C. People become more disciplined
☒ D. Less absenteeism

Question ID : 4410091209854

Option 1 ID : 4410094772924

Option 2 ID : 4410094772925

Option 3 ID : 4410094772923

Option 4 ID : 4410094772922

Status : Answered

Chosen Option : B

Q.29 The open-circuit test on a large power transformer is most often performed by applying a rated voltage to the low-voltage (LV) side while keeping the high-voltage (HV) side open. The primary reason for this procedure is to:

- Ans ☒ A. keep the current drawn from the supply at a manageable level
- ☒ B. prevent the transformer from overheating during the test
- ☒ C. easily measure the no-load losses, which are higher on the LV side
- ☒ D. achieve a high power factor for the test measurements

Question ID : 4410091196367

Option 1 ID : 4410094719254

Option 2 ID : 4410094719256

Option 3 ID : 4410094719257

Option 4 ID : 4410094719255

Status : Answered

Chosen Option : B

Q.30 _____ is a manually operated, heavy-duty main switch used to control and isolate three-phase power in an electrical circuit.

- Ans ☒ A. An Iron Clad Triple Pole (ICTP) main switch
- ☒ B. An intermediate switch
- ☒ C. A bell push or pushbutton switch
- ☒ D. A single-pole, two-way switch

Question ID : 4410091299359

Option 1 ID : 4410095130005

Option 2 ID : 4410095130007

Option 3 ID : 4410095130006

Option 4 ID : 4410095130008

Status : Answered

Chosen Option : A

Q.31 What is the minimum depth recommended for earthing electrode installation as per standard norms?

- Ans ☒ A. 4 metres
- ☒ B. 0.5 metre
- ☒ C. 2.5 metres
- ☒ D. 1 metre

Question ID : 4410091196727

Option 1 ID : 4410094720833

Option 2 ID : 4410094720831

Option 3 ID : 4410094720830

Option 4 ID : 4410094720832

Status : Answered

Chosen Option : C

Q.32 Which device can be reset after a fault condition?

- Ans ☒ A. Resistor
☒ B. Circuit breaker
☒ C. Fuse
☒ D. Capacitor

Question ID : 4410091196511
 Option 1 ID : 4410094719936
 Option 2 ID : 4410094719935
 Option 3 ID : 4410094719934
 Option 4 ID : 4410094719937
 Status : Answered
 Chosen Option : B

Q.33 What is the primary function of an Automatic Meter Reading (AMR) system?

- Ans ☒ A. To allow consumers to remotely control their home appliances.
☒ B. To generate electricity from renewable sources.
☒ C. To automatically collect consumption data from meters and transfer it to a central database.
☒ D. To provide real-time, two-way communication between the utility and the consumer.

Question ID : 4410091212724
 Option 1 ID : 4410094784281
 Option 2 ID : 4410094784280
 Option 3 ID : 4410094784282
 Option 4 ID : 4410094784279
 Status : Answered
 Chosen Option : C

Q.34 In the two-wattmeter method of three-phase power measurement, if the readings of the two wattmeters are equal, then what is the power factor of the load?

- Ans ☒ A. Unity
☒ B. 0.5 leading
☒ C. Zero
☒ D. 0.5 lagging

Question ID : 4410091212791
 Option 1 ID : 4410094784547
 Option 2 ID : 4410094784549
 Option 3 ID : 4410094784550
 Option 4 ID : 4410094784548
 Status : Answered
 Chosen Option : A

Q.35 Which insulation material is commonly used in high-voltage power cables above 33 kV?

- Ans ☒ A. Paper Insulated Lead Covered
☒ B. Polyvinyl Chloride
☒ C. Vulcanised India Rubber
☒ D. Cross-Linked Polyethylene

Question ID : 4410091209921
 Option 1 ID : 4410094773180
 Option 2 ID : 4410094773179
 Option 3 ID : 4410094773178
 Option 4 ID : 4410094773181
 Status : Answered
 Chosen Option : D

Q.36 In a layout diagram, which of the following is usually NOT displayed?

- Ans ☒ A. Internal coil winding of a motor
☒ B. Earthing pit locations
☒ C. Physical location of DBs (Distribution Boards)
☒ D. Lighting fixtures

Question ID : 4410091299361
 Option 1 ID : 4410095130013
 Option 2 ID : 4410095130014
 Option 3 ID : 4410095130015
 Option 4 ID : 4410095130016
 Status : Answered
 Chosen Option : A

Q.37 _____ is a condition in a PN junction diode where the positive terminal of the battery is connected to the N-type region and the negative terminal is connected to the P-type region.

- Ans ☒ A. Reverse bias
☒ B. Neither forward bias nor reverse bias
☒ C. Either forward bias or reverse bias
☒ D. Forward bias

Question ID : 4410091283945
 Option 1 ID : 4410095067367
 Option 2 ID : 4410095067370
 Option 3 ID : 4410095067369
 Option 4 ID : 4410095067368
 Status : Answered
 Chosen Option : A

Q.38 What is the primary active material of the positive plate (cathode) in a fully charged lead-acid battery?

- Ans ☒ A. Lead peroxide (PbO_2)
☒ B. Sulphuric acid (H_2SO_4)
☒ C. Lead sulphate (PbSO_4)
☒ D. Spongy lead (Pb)

Question ID : 4410091212828
 Option 1 ID : 4410094784697
 Option 2 ID : 4410094784698
 Option 3 ID : 4410094784696
 Option 4 ID : 4410094784695
 Status : Answered
 Chosen Option : D

Q.39 The outer layers of a PNP transistor are made of which type of semiconductor material?

- Ans ☒ A. N-type semiconductor sandwiched between P-type material
☒ B. N-type material only
☒ C. P-type material only
☒ D. N-type and P-type material only

Question ID : 4410091286882
 Option 1 ID : 4410095079324
 Option 2 ID : 4410095079321
 Option 3 ID : 4410095079322
 Option 4 ID : 4410095079323
 Status : Answered
 Chosen Option : C

Q.40 Which feature distinguishes a cold chisel from other chisels?

- Ans ☐ A. It has a wooden handle only.
- ☐ B. It has a rounded cutting edge.
- ☐ C. It is designed exclusively for wood cutting.
- ☒ D. It is made of hardened steel to cut metals.

Question ID : 4410091196823

Option 1 ID : 4410094721239

Option 2 ID : 4410094721241

Option 3 ID : 4410094721240

Option 4 ID : 4410094721238

Status : Not Answered

Chosen Option : --

Q.41 Which hand tool is used for nailing, straightening and bending work?

- Ans ☐ A. Screwdriver
- ☒ B. Hammer
- ☐ C. Wire stripper
- ☐ D. Pliers

Question ID : 4410091209875

Option 1 ID : 4410094773006

Option 2 ID : 4410094773009

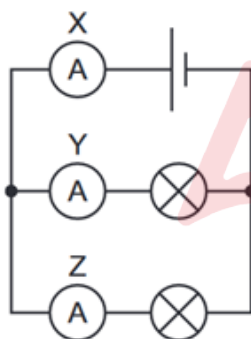
Option 3 ID : 4410094773008

Option 4 ID : 4410094773007

Status : Answered

Chosen Option : B

Q.42 Three ammeters X, Y, Z and two identical light points are connected across a battery as shown in the given figure. Which of the following options is true about the ammeter reading?



- Ans ☐ A. Reading of ammeter Y > Reading of ammeter Z
- ☐ B. Reading of ammeter Y > Reading of ammeter X
- ☐ C. Reading of ammeter X = Reading of ammeter Y
- ☒ D. Reading of ammeter Y = Reading of ammeter Z

Question ID : 4410091177046

Option 1 ID : 4410094642407

Option 2 ID : 4410094642409

Option 3 ID : 4410094642408

Option 4 ID : 4410094642410

Status : Answered

Chosen Option : A

Q.43 Which characteristic curve of a DC generator shows the relation between the terminal voltage and load current?

- Ans ☒ A. Magnetisation characteristic
☒ B. Internal characteristic
☒ C. Open circuit characteristic
☒ D. External characteristic

Question ID : 4410091196286

Option 1 ID : 4410094718879

Option 2 ID : 4410094718877

Option 3 ID : 4410094718876

Option 4 ID : 4410094718878

Status : Answered

Chosen Option : D

Q.44 Why is a short-circuit test performed on a transformer?

- Ans ☒ A. To calculate voltage regulation
☒ B. To determine iron loss
☒ C. To determine copper loss and equivalent impedance
☒ D. To measure flux leakage

Question ID : 4410091196572

Option 1 ID : 4410094720197

Option 2 ID : 4410094720194

Option 3 ID : 4410094720195

Option 4 ID : 4410094720196

Status : Answered

Chosen Option : C

Q.45 Which of the following is the defining characteristic of a primary cell?

- Ans ☒ A. It is a source of direct current (DC) only.
☒ B. Its chemical reaction is irreversible, making it non-rechargeable.
☒ C. It has a higher energy density than a secondary cell.
☒ D. It is generally larger and heavier than a secondary cell.

Question ID : 4410091212880

Option 1 ID : 4410094784903

Option 2 ID : 4410094784906

Option 3 ID : 4410094784904

Option 4 ID : 4410094784905

Status : Answered

Chosen Option : B

Q.46 Each cell is rated as 1.5 volts and 2 AH. How should the cells be connected to make a battery of 6 volts and 2 AH?

- Ans ☒ A. 2 cells in parallel
☒ B. 4 cells in parallel
☒ C. 2 cells in a series
☒ D. 4 cells in a series

Question ID : 4410091209900

Option 1 ID : 4410094773102

Option 2 ID : 4410094773105

Option 3 ID : 4410094773104

Option 4 ID : 4410094773103

Status : Answered

Chosen Option : B

Q.47 Which of the following is commonly adjusted during the calibration of an analog multimeter?

- Ans ☒ A. Adjust setting of the multiplier
☒ B. Adjust selector switch for changing range
☒ C. Rotate the knob to maximum
☒ D. Adjust pointer alignment to zero

Question ID : 4410091209820

Option 1 ID : 4410094772789

Option 2 ID : 4410094772786

Option 3 ID : 4410094772788

Option 4 ID : 4410094772787

Status : Answered

Chosen Option : C

Q.48 What happens to the power consumed if the voltage applied across a fixed resistor is doubled?

- Ans ☒ A. Becomes half
☒ B. Quadruples
☒ C. Remains unchanged
☒ D. Doubles

Question ID : 4410091187749

Option 1 ID : 4410094685314

Option 2 ID : 4410094685316

Option 3 ID : 4410094685317

Option 4 ID : 4410094685315

Status : Answered

Chosen Option : D

Q.49 As per the synchroscope method of 3-phase alternators, the correct instant of synchronising is when the busbar and the incoming machine voltages _____.

- Ans ☒ A. are equal in magnitude, are out of phase and, have the same frequency
☒ B. are not equal in magnitude, are in phase and, have the same frequency
☒ C. are equal in magnitude, are in phase and, have the same frequency
☒ D. are equal in magnitude, are in phase and, have the different frequency

Question ID : 4410091275100

Option 1 ID : 4410095032440

Option 2 ID : 4410095032442

Option 3 ID : 4410095032439

Option 4 ID : 4410095032441

Status : Answered

Chosen Option : C

Q.50 A series RLC circuit has a resistance $R = 3 \Omega$, an inductive reactance $X_L = 8 \Omega$, and a capacitive reactance $X_C = 4 \Omega$. What is the magnitude of the impedance?

- Ans ☐ A. 10Ω
☐ B. 7Ω
☒ C. 5Ω
☐ D. 15Ω

Question ID : 4410091186950
 Option 1 ID : 4410094681940
 Option 2 ID : 4410094681939
 Option 3 ID : 4410094681938
 Option 4 ID : 4410094681941
 Status : Answered
 Chosen Option : C

Q.51 What does the average forward current rating of a diode signify?

- Ans ☒ A. Maximum DC current the diode can handle continuously
☐ B. Current at breakdown
☐ C. Peak current in reverse bias
☐ D. Maximum AC current

Question ID : 4410091196592
 Option 1 ID : 4410094720278
 Option 2 ID : 4410094720281
 Option 3 ID : 4410094720280
 Option 4 ID : 4410094720279
 Status : Not Answered
 Chosen Option : --

Q.52 Which type of wiring is known for good appearance and high durability?

- Ans ☐ A. Casing and capping wiring
☐ B. Cleat wiring
☒ C. Metal conduit wiring
☐ D. TRS or CTS wiring

Question ID : 4410091209920
 Option 1 ID : 4410094773175
 Option 2 ID : 4410094773177
 Option 3 ID : 4410094773176
 Option 4 ID : 4410094773174
 Status : Answered
 Chosen Option : C

Q.53 In a real transformer under a load, which of the following statements is true regarding flux in the core?

- Ans ☒ A. Flux remains practically constant regardless of the load.
☐ B. Flux decreases as the load increases.
☐ C. Flux increases as the load increases.
☐ D. Flux fluctuates with load current.

Question ID : 4410091205066
 Option 1 ID : 4410094753777
 Option 2 ID : 4410094753775
 Option 3 ID : 4410094753776
 Option 4 ID : 4410094753778
 Status : Answered
 Chosen Option : A

Q.54 Why is a multiplate construction used in lead-acid batteries?

- Ans ☒ A. To reduce voltage
☒ B. To reduce the cost
☒ C. To increase internal resistance
☒ D. To increase capacity by increasing surface area

Question ID : 4410091212808
 Option 1 ID : 4410094784618
 Option 2 ID : 4410094784615
 Option 3 ID : 4410094784617
 Option 4 ID : 4410094784616
 Status : Answered
 Chosen Option : D

Q.55 The resistance of metals _____ with a rise in temperature because they have a _____.

- Ans ☒ A. decreases, negative temperature coefficient of resistance
☒ B. increases, positive temperature coefficient of resistance
☒ C. increases, negative temperature coefficient of resistance
☒ D. decreases, positive temperature coefficient of resistance

Question ID : 4410091275082
 Option 1 ID : 4410095032370
 Option 2 ID : 4410095032367
 Option 3 ID : 4410095032369
 Option 4 ID : 4410095032368
 Status : Answered
 Chosen Option : B

Q.56 What does a red safety sign typically indicate in an electrical environment?

- Ans ☒ A. Danger
☒ B. Warning
☒ C. Caution
☒ D. Notice

Question ID : 4410091196857
 Option 1 ID : 4410094721370
 Option 2 ID : 4410094721372
 Option 3 ID : 4410094721371
 Option 4 ID : 4410094721373
 Status : Answered
 Chosen Option : A

Q.57 What is the primary function of an electrolyte within any electrochemical cell or battery?

- Ans ☒ A. To act as a physical separator between the anode and cathode.
☒ B. To enable the flow of ions between the anode and cathode.
☒ C. To conduct electrons between the two electrodes.
☒ D. To provide the source of the chemical reactants for the reaction.

Question ID : 4410091212864
 Option 1 ID : 4410094784839
 Option 2 ID : 4410094784842
 Option 3 ID : 4410094784840
 Option 4 ID : 4410094784841
 Status : Answered
 Chosen Option : B

Q.58 Which of the following is a commercially used bidirectional switching device?

- Ans ☒ A. Triode for Alternating Current (TRIAC)
☒ B. Unijunction Transistor (UJT)
☒ C. Diode for Alternating Current (DIAC)
☒ D. Silicon Controlled Rectifier (SCR)

Question ID : 4410091202912

Option 1 ID : 4410094745181

Option 2 ID : 4410094745180

Option 3 ID : 4410094745183

Option 4 ID : 4410094745182

Status : Answered

Chosen Option : D

Q.59 Which of the following is the initial cause of rotation of a three-phase induction motor?

- Ans ☒ A. Relative velocity between rotating flux and rotating stator conductor
☒ B. Relative velocity between static stator conductor and rotating flux
☒ C. Relative velocity between rotating flux and static rotor conductor
☒ D. Relative velocity between rotating rotor conductor and rotating flux

Question ID : 4410091199161

Option 1 ID : 4410094730495

Option 2 ID : 4410094730493

Option 3 ID : 4410094730494

Option 4 ID : 4410094730492

Status : Answered

Chosen Option : B

Q.60 What is the relationship between RMS voltage and average voltage for a square waveform?

- Ans ☒ A. RMS voltage = Average voltage/ $\sqrt{2}$
☒ B. RMS voltage = Average voltage
☒ C. RMS voltage = $2 \times$ Average voltage
☒ D. RMS voltage = $\sqrt{2} \times$ Average voltage

Question ID : 4410091175719

Option 1 ID : 4410094637112

Option 2 ID : 4410094637114

Option 3 ID : 4410094637115

Option 4 ID : 4410094637113

Status : Answered

Chosen Option : C

Q.61 Four cells are connected in parallel. Each cell is rated at 1.5 volts and 8 ampere-hours (AH). What is the total AH (ampere-hour) rating of the battery?

- Ans ☒ A. 16 AH
☒ B. 12 AH
☒ C. 32 AH
☒ D. 20 AH

Question ID : 4410091209899

Option 1 ID : 4410094773098

Option 2 ID : 4410094773101

Option 3 ID : 4410094773099

Option 4 ID : 4410094773100

Status : Answered

Chosen Option : C

Q.62 What is the minimum distance between the bottom of a ceiling fan and the floor as per IE rules?

- Ans ☒ A. 3.5 metres
☒ B. 2.4 metres
☒ C. 1.5 metres
☒ D. 4.75 metres

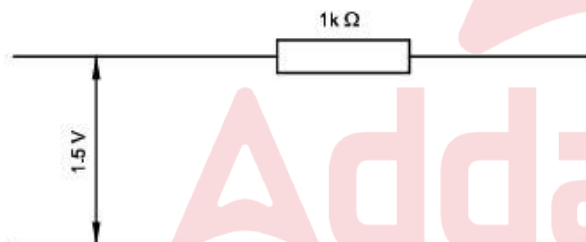
Question ID : 4410091209919
 Option 1 ID : 4410094773172
 Option 2 ID : 4410094773171
 Option 3 ID : 4410094773170
 Option 4 ID : 4410094773173
 Status : Answered
 Chosen Option : D

Q.63 Why can a Moving Iron (MI) instrument be used for both, AC and DC?

- Ans ☒ A. Due to its operation being based on current strength
☒ B. Due to its scale not being uniform
☒ C. Because it has a piece of soft iron inside
☒ D. Due to air friction damping

Question ID : 4410091209828
 Option 1 ID : 4410094772820
 Option 2 ID : 4410094772819
 Option 3 ID : 4410094772821
 Option 4 ID : 4410094772818
 Status : Not Answered
 Chosen Option : --

Q.64 Find the current (I) flowing through the circuit shown in the figure given below.



- Ans ☒ A. 15 mA
☒ B. 1.5 A
☒ C. 1.5 mA
☒ D. 0.0015 mA

Question ID : 4410091275068
 Option 1 ID : 4410095032313
 Option 2 ID : 4410095032314
 Option 3 ID : 4410095032311
 Option 4 ID : 4410095032312
 Status : Answered
 Chosen Option : C

Q.65 Which of the following correctly describes the transistor regions with respect to doping?

- Ans ☒ A. All regions equally doped
- ☒ B. Emitter: moderately doped, Base: lightly doped, Collector: heavily doped
- ☒ C. Emitter: lightly doped, Base: heavily doped, Collector: moderately doped
- ☒ D. Emitter: heavily doped, Base: lightly doped, Collector: moderately doped

Question ID : 4410091205168

Option 1 ID : 4410094754194

Option 2 ID : 4410094754193

Option 3 ID : 4410094754192

Option 4 ID : 4410094754191

Status : Answered

Chosen Option : D

Q.66 Which type of wire joint is commonly used to connect two wires of the same diameter in a straight line?

- Ans ☒ A. Straight Joint
- ☒ B. Tee Joint
- ☒ C. Western Union Joint
- ☒ D. Britannia Joint

Question ID : 4410091213002

Option 1 ID : 4410094785384

Option 2 ID : 4410094785385

Option 3 ID : 4410094785383

Option 4 ID : 4410094785386

Status : Answered

Chosen Option : A

Q.67 What is the primary purpose of biasing a transistor?

- Ans ☒ A. To prevent it from overheating
- ☒ B. To increase its current gain
- ☒ C. To turn it into a diode
- ☒ D. To establish a proper operating point

Question ID : 4410091196631

Option 1 ID : 4410094720441

Option 2 ID : 4410094720439

Option 3 ID : 4410094720438

Option 4 ID : 4410094720440

Status : Answered

Chosen Option : B

Q.68 What is the purpose of conducting an earth resistance test periodically after installation?

- Ans ☒ A. To ensure the earthing system remains effective over time.
- ☒ B. To check if the circuit is insulated properly.
- ☒ C. To measure the total power consumption of the circuit.
- ☒ D. To find any voltage fluctuations in the circuit.

Question ID : 4410091215595

Option 1 ID : 4410094795759

Option 2 ID : 4410094795760

Option 3 ID : 4410094795761

Option 4 ID : 4410094795762

Status : Answered

Chosen Option : A

Q.69 What is the most widely used wiring method in industrial electrical installations?

- Ans ☒ A. Casing-capping wiring
- ☒ B. Cleat wiring
- ☒ C. Surface wiring with battens
- ☒ D. Conduit wiring

Question ID : 4410091212930
Option 1 ID : 4410094785101
Option 2 ID : 4410094785099
Option 3 ID : 4410094785102
Option 4 ID : 4410094785100
Status : Answered
Chosen Option : D

Q.70 What is the main purpose of earthing in an electrical system?

- Ans ☒ A. It provides a path with low current.
- ☒ B. It provides a path with low voltage.
- ☒ C. It provides a high resistance path.
- ☒ D. It provides an alternative path to current flow.

Question ID : 4410091204434
Option 1 ID : 4410094751245
Option 2 ID : 4410094751243
Option 3 ID : 4410094751244
Option 4 ID : 4410094751246
Status : Answered
Chosen Option : D

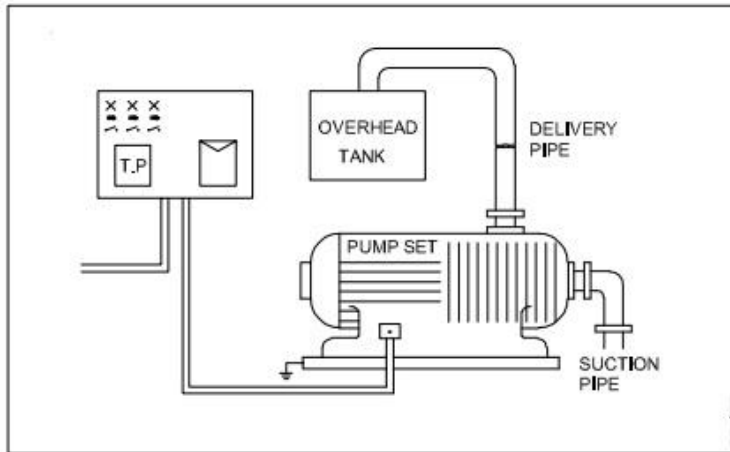
Section : Engg Drawing and Workshop

Q.1 60° is equal to _____ radians.

- Ans ☒ A. $2\pi/3$
- ☒ B. $\pi/2$
- ☒ C. $\pi/3$
- ☒ D. π

Question ID : 4410091292804
Option 1 ID : 4410095103313
Option 2 ID : 4410095103312
Option 3 ID : 4410095103311
Option 4 ID : 4410095103314
Status : Answered
Chosen Option : C

Q.2 Which of the following is the electrical layout shown below related to?



- Ans ☒ A. Hydraulic power station layout
- ☒ B. Conduit layout diagram of pump
- ☒ C. Direct current recharge system
- ☒ D. Automatic flow control system

Question ID : 4410091292824

Option 1 ID : 4410095103394

Option 2 ID : 4410095103391

Option 3 ID : 4410095103393

Option 4 ID : 4410095103392

Status : Answered

Chosen Option : B

Q.3 _____ is a non-ferrous metal.

- Ans ☒ A. Wrought iron
- ☒ B. Cast iron
- ☒ C. Mild steel
- ☒ D. Aluminium

Question ID : 4410091300743

Option 1 ID : 4410095135305

Option 2 ID : 4410095135302

Option 3 ID : 4410095135303

Option 4 ID : 4410095135304

Status : Answered

Chosen Option : D

Q.4 The ability of a metal to be stretched into wires is called _____.

- Ans ☒ A. toughness
- ☒ B. hardness
- ☒ C. malleability
- ☒ D. ductility

Question ID : 4410091300151

Option 1 ID : 4410095132932

Option 2 ID : 4410095132933

Option 3 ID : 4410095132930

Option 4 ID : 4410095132931

Status : Answered

Chosen Option : D

Q.5 Which of the following is used as an electrical insulator?

- Ans ☒ A. Rubber
☒ B. Aluminium
☒ C. Steel
☒ D. Copper

Question ID : 4410091300185
 Option 1 ID : 4410095133068
 Option 2 ID : 4410095133067
 Option 3 ID : 4410095133069
 Option 4 ID : 4410095133066
 Status : Answered
 Chosen Option : A

Q.6 Which of the following is an alloy steel?

- Ans ☒ A. Stainless steel
☒ B. Wrought iron
☒ C. Cast iron
☒ D. Mild steel

Question ID : 4410091300015
 Option 1 ID : 4410095132387
 Option 2 ID : 4410095132388
 Option 3 ID : 4410095132386
 Option 4 ID : 4410095132389
 Status : Answered
 Chosen Option : A

Q.7 The value of $\frac{\sin 60^\circ}{\cos 30^\circ}$ is _____.

- Ans ☒ A. 0.5
☒ B. 2
☒ C. 0
☒ D. 1

Question ID : 4410091299942
 Option 1 ID : 4410095132095
 Option 2 ID : 4410095132097
 Option 3 ID : 4410095132096
 Option 4 ID : 4410095132094
 Status : Not Answered
 Chosen Option : --

Q.8 What happens if the current exceeds 6A in any phase?

- Ans ☒ A. The ammeter will stop working
☒ B. Lamps will glow dim
☒ C. MCB will trip and disconnect the circuit
☒ D. The neutral wire will carry excess current

Question ID : 4410091290871
 Option 1 ID : 4410095095395
 Option 2 ID : 4410095095394
 Option 3 ID : 4410095095396
 Option 4 ID : 4410095095397
 Status : Answered
 Chosen Option : D

Q.9 In a circuit, what is the function of an MCB (Miniature Circuit Breaker)?

- Ans ☒ A. To protect the circuit from overload or short circuit
- ☒ B. To convert AC to DC
- ☒ C. To increase the voltage to desired level
- ☒ D. To reduce power consumption in the circuit

Question ID : 4410091278424
Option 1 ID : 4410095045648
Option 2 ID : 4410095045649
Option 3 ID : 4410095045647
Option 4 ID : 4410095045650
Status : Answered
Chosen Option : A

Q.10 In electrical drawings, the symbol of a single cell (battery) is represented by:

- Ans ☒ A. a rectangle
- ☒ B. a zig-zag line
- ☒ C. a circle with a cross inside
- ☒ D. two parallel lines, one longer than the other

Question ID : 4410091257095
Option 1 ID : 4410094961242
Option 2 ID : 4410094961241
Option 3 ID : 4410094961240
Option 4 ID : 4410094961239
Status : Answered
Chosen Option : D

Q.11 The symbol with a circle and M inside, with + and - signs, represents a/an:

- Ans ☒ A. AC Motor (Single Phase)
- ☒ B. Transformer
- ☒ C. DC Motor
- ☒ D. Generator

Question ID : 4410091257169
Option 1 ID : 4410094961532
Option 2 ID : 4410094961534
Option 3 ID : 4410094961531
Option 4 ID : 4410094961533
Status : Answered
Chosen Option : C

Q.12 Which block in the function generator converts a triangular waveform into a sine waveform?

- Ans ☒ A. Voltage Comparator Multivibrator
- ☒ B. Resistance Diode Shaping Circuit
- ☒ C. Output Amplifier
- ☒ D. Integrator

Question ID : 4410091275976
Option 1 ID : 4410095036002
Option 2 ID : 4410095036000
Option 3 ID : 4410095036001
Option 4 ID : 4410095035999
Status : Answered
Chosen Option : D

Q.13 What is the addition of $\frac{1}{2} + \frac{1}{8} + \frac{5}{12}$?

- Ans
- ☒ A. $\frac{21}{24}$
 - ☒ B. $\frac{25}{24}$
 - ☒ C. $\frac{5}{24}$
 - ☒ D. $\frac{5}{12}$

Question ID : 4410091292717

Option 1 ID : 4410095102968

Option 2 ID : 4410095102967

Option 3 ID : 4410095102970

Option 4 ID : 4410095102969

Status : Answered

Chosen Option : A

Q.14 What is the main purpose of an inverter in an electrical circuit?

- Ans
- ☒ A. To convert DC to AC
 - ☒ B. To regulate frequency
 - ☒ C. To step up the voltage
 - ☒ D. To measure current flow

Question ID : 4410091278420

Option 1 ID : 4410095045632

Option 2 ID : 4410095045634

Option 3 ID : 4410095045631

Option 4 ID : 4410095045633

Status : Answered

Chosen Option : A

Q.15 An acceleration of 1 m/s^2 is equal to _____ (in ft/s^2).

- Ans
- ☒ A. 0.305
 - ☒ B. 1.333
 - ☒ C. 0.738
 - ☒ D. 3.281

Question ID : 4410091292753

Option 1 ID : 4410095103112

Option 2 ID : 4410095103114

Option 3 ID : 4410095103113

Option 4 ID : 4410095103111

Status : Answered

Chosen Option : D

Q.16 In an Automatic Power Factor Correction (APFC) panel, the primary function of a relay card is to:

- Ans ☒ A. store energy to maintain voltage stability in the APFC system
- ☒ B. directly measure the power factor of the APFC system
- ☒ C. protect the system from overvoltage by absorbing surges
- ☒ D. switch capacitor banks by providing isolation between the APFC controller and contactors

Question ID : 4410091292917
 Option 1 ID : 4410095103766
 Option 2 ID : 4410095103764
 Option 3 ID : 4410095103767
 Option 4 ID : 4410095103765
 Status : Answered
 Chosen Option : D

Q.17 Which of the following is a physical property of metals?

- Ans ☒ A. Conductivity
- ☒ B. Hardness
- ☒ C. Ductility
- ☒ D. Strength

Question ID : 4410091300174
 Option 1 ID : 4410095133023
 Option 2 ID : 4410095133024
 Option 3 ID : 4410095133025
 Option 4 ID : 4410095133022
 Status : Answered
 Chosen Option : D

Q.18 During earthing, earth electrodes shall be provided at:

- Ans ☒ A. only generating stations
- ☒ B. generating stations, substations, and consumer premises
- ☒ C. only industrial plants
- ☒ D. only substations

Question ID : 4410091300712
 Option 1 ID : 4410095135176
 Option 2 ID : 4410095135177
 Option 3 ID : 4410095135179
 Option 4 ID : 4410095135178
 Status : Answered
 Chosen Option : B

Q.19 In a balanced three-phase lamp load, what will the neutral current be?

- Ans ☒ A. Equal to line current
- ☒ B. Maximum
- ☒ C. Half of line current
- ☒ D. Zero

Question ID : 4410091290886
 Option 1 ID : 4410095095464
 Option 2 ID : 4410095095462
 Option 3 ID : 4410095095465
 Option 4 ID : 4410095095463
 Status : Answered
 Chosen Option : A

Q.20 Pipe electrodes used in earthing shall be made of:

- Ans ☒ A. plastic pipes with sufficient wall thickness
- ☒ B. painted or insulated metal rods
- ☒ C. ceramic materials
- ☒ D. metal rod or pipe with a clean surface

Question ID : 4410091300716

Option 1 ID : 4410095135192

Option 2 ID : 4410095135194

Option 3 ID : 4410095135195

Option 4 ID : 4410095135193

Status : Answered

Chosen Option : D

Q.21 Convert 78° into radian.

- Ans ☒ A. $2\pi/5$
- ☒ B. $20\pi/90$
- ☒ C. $78\pi/2$
- ☒ D. $13\pi/30$

Question ID : 4410091299911

Option 1 ID : 4410095131987

Option 2 ID : 4410095131988

Option 3 ID : 4410095131989

Option 4 ID : 4410095131986

Status : Not Answered

Chosen Option : --

Q.22 Which of the following units are part of the CGS system?

- Ans ☒ A. Foot, Pound, Second
- ☒ B. Millimetre, Gram, Second
- ☒ C. Centimetre, Gram, Second
- ☒ D. Metre, Kilogram, Second

Question ID : 4410091292568

Option 1 ID : 4410095102372

Option 2 ID : 4410095102375

Option 3 ID : 4410095102374

Option 4 ID : 4410095102373

Status : Answered

Chosen Option : C

Q.23 Steel is obtained by adding _____ to iron.

- Ans ☒ A. chromium
- ☒ B. nickel
- ☒ C. copper
- ☒ D. carbon

Question ID : 4410091300025

Option 1 ID : 4410095132427

Option 2 ID : 4410095132429

Option 3 ID : 4410095132426

Option 4 ID : 4410095132428

Status : Answered

Chosen Option : D

Q.24 Find the HCF of numbers 24, 72 and 100.

- Ans ☒ A. 2
☒ B. 6
☒ C. 12
☒ D. 4

Question ID : 4410091292623
 Option 1 ID : 4410095102596
 Option 2 ID : 4410095102598
 Option 3 ID : 4410095102599
 Option 4 ID : 4410095102597
 Status : Answered
 Chosen Option : D

Q.25 The electrical symbol with a circle and G inside, with + and – signs, indicates a/an:

- Ans ☒ A. AC Motor
☒ B. DC Motor
☒ C. Generator
☒ D. Capacitor

Question ID : 4410091257152
 Option 1 ID : 4410094961465
 Option 2 ID : 4410094961463
 Option 3 ID : 4410094961464
 Option 4 ID : 4410094961466
 Status : Answered
 Chosen Option : C

Q.26 Divide ₹720 in the ratio 3 : 5.

- Ans ☒ A. ₹240, ₹480
☒ B. ₹300, ₹420
☒ C. ₹280, ₹440
☒ D. ₹270, ₹450

Question ID : 4410091301381
 Option 1 ID : 4410095137816
 Option 2 ID : 4410095137818
 Option 3 ID : 4410095137819
 Option 4 ID : 4410095137817
 Status : Answered
 Chosen Option : D

Q.27 Which of the following is a ferrous metal?

- Ans ☒ A. Copper
☒ B. Brass
☒ C. Aluminium
☒ D. Cast Iron

Question ID : 4410091300771
 Option 1 ID : 4410095135402
 Option 2 ID : 4410095135403
 Option 3 ID : 4410095135405
 Option 4 ID : 4410095135404
 Status : Answered
 Chosen Option : D

Q.28 A porcelain plate with a groove houses the Nichrome wire in a coil form. Which type of heater is this?

- Ans ☒ A. Exposed element type heater
☒ B. Tubular heater
☒ C. Immersion type heater
☒ D. Shell and coil type heater

Question ID : 4410091300673
 Option 1 ID : 4410095135021
 Option 2 ID : 4410095135022
 Option 3 ID : 4410095135020
 Option 4 ID : 4410095135023
 Status : Answered
 Chosen Option : D

Q.29 What does 'MCB' stand for in an electrical layout diagram?

- Ans ☒ A. Main Cable Box
☒ B. Miniature Circuit Breaker
☒ C. Manual Control Box
☒ D. Motor Control Board

Question ID : 4410091291509
 Option 1 ID : 4410095098046
 Option 2 ID : 4410095098047
 Option 3 ID : 4410095098049
 Option 4 ID : 4410095098048
 Status : Answered
 Chosen Option : B

Q.30 What is the primary purpose of a layout diagram in electrical installation?

- Ans ☒ A. Show the appearance of electrical equipment only
☒ B. Display the internal connections of electrical machines
☒ C. Measure the voltage and current in the circuit
☒ D. Indicate the physical location of wiring and accessories

Question ID : 4410091289645
 Option 1 ID : 4410095090498
 Option 2 ID : 4410095090500
 Option 3 ID : 4410095090501
 Option 4 ID : 4410095090499
 Status : Answered
 Chosen Option : D

Q.1 If 'P' stands for '-', 'Q' stands for 'x', 'C' stands for '÷' and 'D' stands for '+', then what will come in place of the question mark (?) in the following equation?

$$15 \text{ D } 9 \text{ C } 3 \text{ Q } 2 \text{ P } 14 = ? \quad 6156$$

- Ans
- ☒ A. -3
 - ☒ B. 27
 - ☒ C. 7
 - ☒ D. 17

Question ID : 441009556621
Option 1 ID : 4410092181798
Option 2 ID : 4410092181801
Option 3 ID : 4410092181799
Option 4 ID : 4410092181800
Status : Answered
Chosen Option : C

Q.2 Select the greatest ratio among the following:

- 33 : 37
- 41 : 43
- 27 : 31
- 38 : 39

- Ans
- ☒ A. 38 : 39
 - ☒ B. 33 : 37
 - ☒ C. 41 : 43
 - ☒ D. 27 : 31

Question ID : 4410091238408
Option 1 ID : 4410094887153
Option 2 ID : 4410094887150
Option 3 ID : 4410094887151
Option 4 ID : 4410094887152
Status : Answered
Chosen Option : A

Q.3 Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number result(s) in the second number. Similarly, certain mathematical operation(s) on the second number result(s) in the third number and so on. Which of the given options follows the same set of operations as in the given sets? (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding to/subtracting from/multiplying with 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

$$11 - 44 - 54 - 108$$

$$9 - 36 - 46 - 92$$

- Ans
- ☒ A. 13 – 52 – 62 – 124
 - ☒ B. 15 – 60 – 70 – 210
 - ☒ C. 10 – 40 – 60 – 120
 - ☒ D. 8 – 32 – 52 – 104

Question ID : 441009587664
Option 1 ID : 4410092305783
Option 2 ID : 4410092305784
Option 3 ID : 4410092305785
Option 4 ID : 4410092305782
Status : Answered
Chosen Option : A

Q.4 A solid cone of radius 14 cm and height 24 cm is melted and recast into a solid cylinder of radius 7 cm. Calculate the height of the cylinder.

- Ans ☒ A. 42 cm
☒ B. 22 cm
☒ C. 32 cm
☒ D. 39 cm

Question ID : 441009602865
Option 1 ID : 4410092366580
Option 2 ID : 4410092366577
Option 3 ID : 4410092366578
Option 4 ID : 4410092366579
Status : Not Answered
Chosen Option : --

Q.5 Find the least value of $(3K^2 - 5)$ for which the five digit number 576K

- Ans ☒ A. 22
☒ B. -2
☒ C. -5
☒ D. 7

Question ID : 4410091326122
Option 1 ID : 4410095235957
Option 2 ID : 4410095235955
Option 3 ID : 4410095235954
Option 4 ID : 4410095235956
Status : Answered
Chosen Option : B

Q.6 What will come in the place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$135 \times 15 \div 17 + 7 - 4 = ?$$

- Ans ☒ A. 150
☒ B. 149
☒ C. 144
☒ D. 148

Question ID : 441009556013
Option 1 ID : 4410092179368
Option 2 ID : 4410092179367
Option 3 ID : 4410092179369
Option 4 ID : 4410092179366
Status : Answered
Chosen Option : A

Q.7 In a certain code language, 'COAL' is coded as '1378' and 'COLD' is coded as '1938'.
What is the code for 'D' in that language?

- Ans ☒ A. 3
☒ B. 1
☒ C. 7
☒ D. 9

Question ID : 441009694437
Option 1 ID : 4410092731780
Option 2 ID : 4410092731781
Option 3 ID : 4410092731779
Option 4 ID : 4410092731778
Status : Answered
Chosen Option : D

Q.8 If 'A' stands for '+', 'B' stands for 'x', 'C' stands for '+' and 'D' stands for '-' , then what
will come in place of the question mark (?) in the following equation?

6 C 114 A 3 B 8 D 3 =?

- Ans ☒ A. 307
☒ B. 317
☒ C. 319
☒ D. 314

Question ID : 441009556021
Option 1 ID : 4410092179398
Option 2 ID : 4410092179399
Option 3 ID : 4410092179400
Option 4 ID : 4410092179401
Status : Answered
Chosen Option : A

Q.9 If the fourth proportional of 2, 5 and $(x^2 + 1)$ is 65, then find the value of $x^4 + 10$.

- Ans ☒ A. 266
☒ B. 91
☒ C. 635
☒ D. 739

Question ID : 4410091259985
Option 1 ID : 4410094972800
Option 2 ID : 4410094972803
Option 3 ID : 4410094972801
Option 4 ID : 4410094972802
Status : Not Answered
Chosen Option : --

Q.10 A person borrowed an amount of ₹8,000 at the simple interest rate of 8.4% for n months.
If the interest is ₹3,584 then find the value of n.

- Ans ☒ A. 70 months
☒ B. 54 months
☒ C. 64 months
☒ D. 58 months

Question ID : 4410091257339

Option 1 ID : 4410094962206

Option 2 ID : 4410094962208

Option 3 ID : 4410094962209

Option 4 ID : 4410094962207

Status : Not Answered

Chosen Option : --

Q.11 A shopkeeper marks an article at ₹x and offers a discount of 50% on it. He sells it for ₹374 after charging VAT of 36% on the discounted price. What is the value of x?3848

- Ans ☒ A. 300
☒ B. 800
☒ C. 400
☒ D. 550

Question ID : 441009561259

Option 1 ID : 4410092200305

Option 2 ID : 4410092200306

Option 3 ID : 4410092200304

Option 4 ID : 4410092200303

Status : Not Answered

Chosen Option : --

Q.12 Mohit ranked 24th from the top and 36th from the bottom in his class. How many students are there in his class?

- Ans ☒ A. 60
☒ B. 59
☒ C. 58
☒ D. 57

Question ID : 441009755664

Option 1 ID : 4410092976652

Option 2 ID : 4410092976649

Option 3 ID : 4410092976650

Option 4 ID : 4410092976651

Status : Answered

Chosen Option : B

Q.13 Seven people A, B, C, D, E, F and G are sitting in a straight line, facing north. None sits to the left of C. Only three people sit between G and C. F is an immediate neighbour of both C and A. B sits to the immediate right of E. Who sits third to the right of D?

- Ans ☒ A. E
☒ B. B
☒ C. F
☒ D. G

Question ID : 441009755604
 Option 1 ID : 4410092976410
 Option 2 ID : 4410092976409
 Option 3 ID : 4410092976412
 Option 4 ID : 4410092976411
 Status : Answered
 Chosen Option : B

Q.14 The population of a village increased by 16% in 2020 and decreased by 5% in 2021. If its population in January 2022 is 27,550, then find its population in December 2019.

- Ans ☒ A. 21,560
☒ B. 26,400
☒ C. 23,250
☒ D. 25,000

Question ID : 4410091258716
 Option 1 ID : 4410094967709
 Option 2 ID : 4410094967711
 Option 3 ID : 4410094967708
 Option 4 ID : 4410094967710
 Status : Answered
 Chosen Option : D

Q.15 Seven boxes A, B, C, D, E, F, and G are stacked one on top of another, but not necessarily in the same order. A is kept at the bottom. Exactly two boxes are kept between A and D. Exactly two boxes are kept between D and E. Exactly three boxes are kept between B and F. C is kept immediately below B. Which box is third from the bottom?

- Ans ☒ A. F
☒ B. G
☒ C. D
☒ D. E

Question ID : 441009758989
 Option 1 ID : 4410092989949
 Option 2 ID : 4410092989951
 Option 3 ID : 4410092989950
 Option 4 ID : 4410092989952
 Status : Answered
 Chosen Option : C

Q.16 Two pipes, P and Q, can fill a tank in 24 minutes and 30 minutes, respectively. If both pipes are opened together, how much time will it take to fill the tank?¹³⁵

- Ans ☒ A. 12 minutes 18 seconds
☒ B. 15 minutes 24 seconds
☒ C. 13 minutes 20 seconds
☒ D. 10 minutes 12 seconds

Question ID : 4410091106272
Option 1 ID : 4410094362083
Option 2 ID : 4410094362085
Option 3 ID : 4410094362084
Option 4 ID : 4410094362082
Status : Answered
Chosen Option : A

Q.17 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:
Some guns are roses. All roses are brakes.

Conclusions:
(I) Some guns are brakes.
(II) All brakes are roses.⁵¹⁷⁸

- Ans ☒ A. Only conclusion (II) follows.
☒ B. Neither conclusion (I) nor (II) follows.
☒ C. Only conclusion (I) follows.
☒ D. Both conclusions (I) and (II) follow.

Question ID : 441009694406
Option 1 ID : 4410092731655
Option 2 ID : 4410092731656
Option 3 ID : 4410092731654
Option 4 ID : 4410092731657
Status : Answered
Chosen Option : B

Q.18 The number 2786140 is divisible by:

- Ans ☒ A. 87
☒ B. 98
☒ C. 104
☒ D. 96

Question ID : 441009911440
Option 1 ID : 4410093600014
Option 2 ID : 4410093600011
Option 3 ID : 4410093600012
Option 4 ID : 4410093600013
Status : Answered
Chosen Option : D

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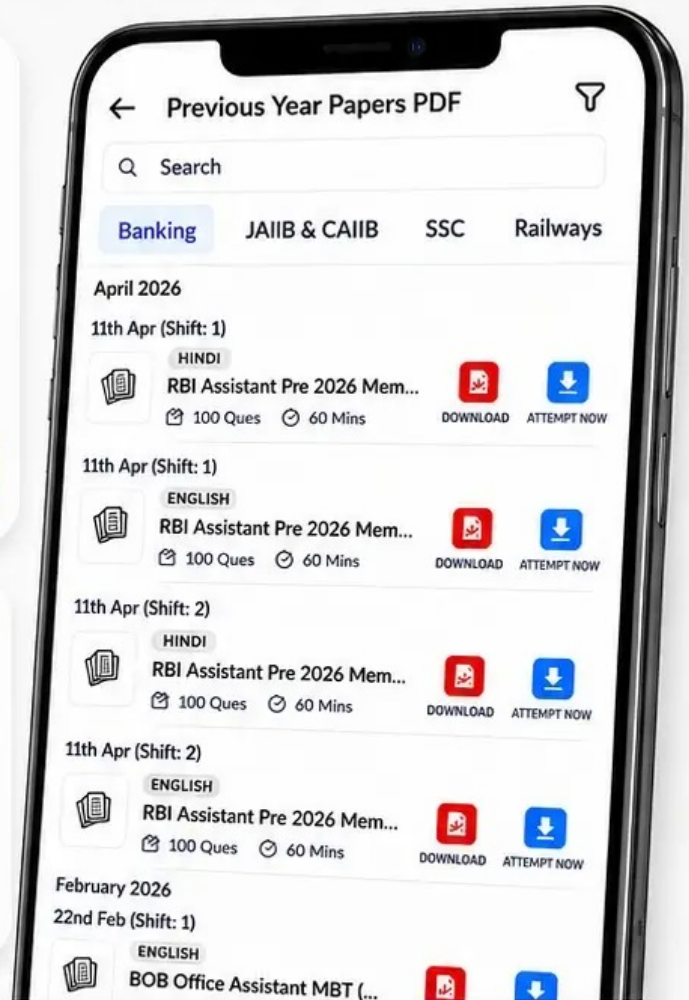
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READ THEIR STORIES!



Q.19 All 29 students in a class are standing in a straight line facing north. Lavanya is 10th from the right end while Adi is 18th from the left end. How many students are standing between Lavanya and Adi?

- Ans ☒ A. 7
☒ B. 1
☒ C. 2
☒ D. 5

Question ID : 441009729614
 Option 1 ID : 4410092872208
 Option 2 ID : 4410092872211
 Option 3 ID : 4410092872210
 Option 4 ID : 4410092872209
 Status : Answered
 Chosen Option : A

Q.20 If ₹20,000 is invested at a rate of 12% compound interest per annum compounded half-yearly. How long will it take to become ₹23,820.32?

- Ans ☒ A. 2 years
☒ B. 1 year 9 months
☒ C. 1 year 6 months
☒ D. 2 years 6 months

Question ID : 4410091241269
 Option 1 ID : 4410094898424
 Option 2 ID : 4410094898423
 Option 3 ID : 4410094898422
 Option 4 ID : 4410094898425
 Status : Answered
 Chosen Option : C