

BHEL Artisan

**Previous Year Paper
(Electronics Mechanic)
08 Oct, 2025**



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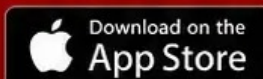


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Participant ID	
Participant Name	
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Test Date	08/10/2025
Test Time	2:00 PM - 3:30 PM
Subject	Electronics Mechanic

Section : Trade Theory

Q.1 Identify the FALSE statement related to LED TVs.

- Ans
- A. LED TVs are available in a vast array of sizes and with various smart features, offering options for different needs and budgets.
 - B. LED TVs use a backlight to illuminate the display.
 - C. LED TVs can be very thin and lightweight, especially edge-lit models.
 - D. LED TVs generally offer poor contrast, brightness, and colour accuracy compared to older LCD TVs.

Question ID : 4410091185193
Option 1 ID : 4410094674954
Option 2 ID : 4410094674953
Option 3 ID : 4410094674956
Option 4 ID : 4410094674955
Status : Answered
Chosen Option : D

Q.2 Which of the following is an advantage of underground cables over overhead lines?

- Ans
- A. Not affected by adverse weather conditions
 - B. Higher installation cost
 - C. Greater voltage drop
 - D. Easier fault detection

Question ID : 4410091224195
Option 1 ID : 4410094830232
Option 2 ID : 4410094830233
Option 3 ID : 4410094830234
Option 4 ID : 4410094830231
Status : Answered
Chosen Option : A

Q.3 In solder grading, a solder labeled as Sn60Pb40 indicates _____.

- Ans
- A. 60% tin, 40% lead
 - B. 60% solder, 40% flux
 - C. 60% lead, 40% tin
 - D. a flux-coated wire with 60% filler

Question ID : 4410091247000
Option 1 ID : 4410094921240
Option 2 ID : 4410094921241
Option 3 ID : 4410094921239
Option 4 ID : 4410094921242
Status : Answered
Chosen Option : A

Q.4 Before measuring voltage with a digital multimeter (DMM), the first step is to _____.

- Ans
- A. select the correct voltage range and type (AC or DC)
 - B. switch the probes to the ohm setting
 - C. connect the test leads to the battery
 - D. press the hold button

Question ID : 4410091205672
Option 1 ID : 4410094756228
Option 2 ID : 4410094756229
Option 3 ID : 4410094756227
Option 4 ID : 4410094756230
Status : Answered
Chosen Option : A

Q.5 In a colour TV signal, the luminance (Y) component represents _____ while the chrominance carries _____.

- Ans
- A. the saturation of colour ; contrast information
 - B. the brightness (black-and-white) information ; hue and saturation of colour
 - C. the colour (hue) information ; the brightness information.
 - D. the phase of the subcarrier ; synchronisation signals

Question ID : 4410091233288
Option 1 ID : 4410094866852
Option 2 ID : 4410094866851
Option 3 ID : 4410094866850
Option 4 ID : 4410094866853
Status : Answered
Chosen Option : B

Q.6 The LCD TV is _____ than the OLED TV and provides _____ picture quality than the traditional CRT TV.

- Ans
- A. costlier; poor
 - B. cheaper; poor
 - C. cheaper; better
 - D. costlier; better

Question ID : 4410091185189
Option 1 ID : 4410094674930
Option 2 ID : 4410094674931
Option 3 ID : 4410094674929
Option 4 ID : 4410094674932
Status : Answered
Chosen Option : C

Q.7 Which of the following statements is correct regarding batteries?

- Ans
- A. Circuit breakers are not required when batteries are present.
 - B. Any battery once discharged, cannot be charged again.
 - C. When the circuit breaker trips, the auxiliary switch is opened to prevent unnecessary drainage of the battery.
 - D. When the circuit breaker trips, the auxiliary switch helps for drainage of the battery.

Question ID : 4410091186893
Option 1 ID : 4410094681714
Option 2 ID : 4410094681717
Option 3 ID : 4410094681715
Option 4 ID : 4410094681716
Status : Answered
Chosen Option : C

Q.8 What is the main disadvantage of a half-wave rectifier compared with a full-wave rectifier?

- Ans
- A. Higher efficiency
 - B. Larger size
 - C. Higher ripple content
 - D. Higher cost

Question ID : 4410091196448
Option 1 ID : 4410094719644
Option 2 ID : 4410094719642
Option 3 ID : 4410094719645
Option 4 ID : 4410094719643
Status : Answered
Chosen Option : C

Q.9 Determine the average value of the half-wave rectified signal observed on a CRO screen if the signal occupies 5 units on y-axis with V/div pointer placed on 2 V/div.

- Ans
- A. 3.18 V
 - B. 10 V
 - C. 6.77 V
 - D. 5 V

Question ID : 4410091186823
Option 1 ID : 4410094681444
Option 2 ID : 4410094681442
Option 3 ID : 4410094681445
Option 4 ID : 4410094681443
Status : Answered
Chosen Option : D

Q.10 The static bypass switch in a UPS block diagram is mainly used to _____.

- Ans
- A. reduce harmonics in the output
 - B. supply load directly from mains during UPS failure or overload
 - C. charge the battery in case of inverter malfunction
 - D. protect the rectifier from overvoltage

Question ID : 4410091254813
Option 1 ID : 4410094952236
Option 2 ID : 4410094952237
Option 3 ID : 4410094952238
Option 4 ID : 4410094952239
Status : Answered
Chosen Option : B

Q.11 Which type of inductor is commonly used in RF (radio frequency) circuits due to its low core losses?

- Ans
- A. Toroidal inductor
 - B. Ferrite core inductor
 - C. Iron core inductor
 - D. Air core inductor

Question ID : 4410091241310
Option 1 ID : 4410094898593
Option 2 ID : 4410094898592
Option 3 ID : 4410094898591
Option 4 ID : 4410094898590
Status : Answered
Chosen Option : A

Q.12 A 5000 mAh battery discharged at 2A will theoretically last _____.

- Ans
- A. 5 hours
 - B. 1.5 hours
 - C. 2.5 hours
 - D. 2 hours

Question ID : 4410091208230
Option 1 ID : 4410094766440
Option 2 ID : 4410094766438
Option 3 ID : 4410094766439
Option 4 ID : 4410094766441
Status : Answered
Chosen Option : C

Q.13 Which block in the block diagram of an op-amp is responsible for rejecting the common-mode signals?

- Ans
- A. Level shifter
 - B. Output stage
 - C. Differential amplifier input stage
 - D. Biasing network

Question ID : 4410091203761
Option 1 ID : 4410094748534
Option 2 ID : 4410094748533
Option 3 ID : 4410094748535
Option 4 ID : 4410094748536
Status : Answered
Chosen Option : D

Q.14 In the 8051 microcontroller, the Accumulator (A) register is part of the Special Function Registers (SFRs). What is its direct address in the internal data memory space?

- Ans
- A. 0x80
 - B. 0xA0
 - C. 0xE0
 - D. 0xF0

Question ID : 4410091207186
Option 1 ID : 4410094762277
Option 2 ID : 4410094762276
Option 3 ID : 4410094762274
Option 4 ID : 4410094762275
Status : Answered
Chosen Option : D

Q.15 The cross-cut chisel differs from the flat chisel mainly because _____.

- Ans
- A. it is only used for woodworking
 - B. it is used for heavy cutting of thick sheets
 - C. its cutting edge is at right angles to the length of the blade
 - D. it has a cutting edge wider than the body

Question ID : 4410091255623
Option 1 ID : 4410094955428
Option 2 ID : 4410094955426
Option 3 ID : 4410094955427
Option 4 ID : 4410094955425
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.16 In a Cathode Ray Oscilloscope (CRO), the Y-gain control is set to 2 V/div. If a sine wave signal causes a vertical deflection of 3.5 divisions from peak to peak, what is the peak voltage of the signal?

- Ans
- A. 14 V
 - B. 3.5 V
 - C. 1.75 V
 - D. 7 V

Question ID : 4410091207171
Option 1 ID : 4410094762216
Option 2 ID : 4410094762214
Option 3 ID : 4410094762217
Option 4 ID : 4410094762215
Status : Answered
Chosen Option : B

Q.17 In mobile devices, a Planar Inverted-F Antenna (PIFA) is often used. Which of the following statements about PIFA operation and performance is INCORRECT according to the given text?

- Ans
- A. PIFA inherently has a narrow bandwidth, but this can be improved using techniques like slots loading, reactance components, or matching circuits.
 - B. Mounting PIFA on the handset ground plane can increase its bandwidth and gain.
 - C. The radiation pattern of a PIFA depends only on the antenna element itself, regardless of the ground plane dimensions.
 - D. The shape and dimensions of the ground plane influence input impedance and radiation pattern.

Question ID : 4410091200708
Option 1 ID : 4410094736591
Option 2 ID : 4410094736590
Option 3 ID : 4410094736588
Option 4 ID : 4410094736589
Status : Answered
Chosen Option : B

Q.18 In a 555 timer working as a PWM generator, the timing capacitor charges from _____.

- Ans
- A.

B. $\frac{1}{3}V_{CC}$ to V_{CC}

C.

D.

Question ID : 4410091203831

Option 1 ID : 4410094748809

Option 2 ID : 4410094748812

Option 3 ID : 4410094748811

Option 4 ID : 4410094748810

Status : Not Attempted and Marked For Review

Chosen Option : --

Q.19 To implement an AND gate using only NOR gates, a minimum of how many NOR gates are required?

- Ans
- A. Two

B. Three

C. One

D. Four

Question ID : 4410091233473

Option 1 ID : 4410094867567

Option 2 ID : 4410094867568

Option 3 ID : 4410094867566

Option 4 ID : 4410094867569

Status : Answered

Chosen Option : A

Q.20 Matching the optical sources with their features.

Optical source	Features
I. LED	A. Highly inflammable
II. LASER	B. Incoherent
	C. Highly directional
	D. Requires insulation to protect it from electrom

- Ans
- A. I-B II-D

B. I-B II-C

C. I-A II-D

D. I-D II-C

Question ID : 4410091185121

Option 1 ID : 4410094674633

Option 2 ID : 4410094674635

Option 3 ID : 4410094674634

Option 4 ID : 4410094674636

Status : Answered

Chosen Option : B

Q.21 Consider the following statements and select the correct option.

Statement I: Direct measuring instruments, like a ruler or micrometer, provide a reading directly related to the object being measured.

Statement II: Indirect measuring instruments, such as calipers, transfer measurements from the object to a direct measuring tool.

- Ans
- A. Only statement II is true.
 - B. Both statements I and II are true.
 - C. Only statement I is true.
 - D. Both statements I and II are false.

Question ID : 4410091186919
Option 1 ID : 4410094681823
Option 2 ID : 4410094681824
Option 3 ID : 4410094681822
Option 4 ID : 4410094681825
Status : Answered
Chosen Option : C

Q.22 A single-phase energy meter is connected to a load where the current lags the voltage by 60°. Which of the following statements about the energy meter is correct?

- Ans
- A. It measures apparent energy consumed regardless of power factor.
 - B. Its reading will be twice the actual energy consumed.
 - C. Its reading will be zero if the load is purely reactive.
 - D. It measures apparent energy rather than true energy.

Question ID : 4410091204714
Option 1 ID : 4410094752622
Option 2 ID : 4410094752619
Option 3 ID : 4410094752621
Option 4 ID : 4410094752620
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.23 Which of the following best describes persistence of vision?

- Ans
- A. The retention of an image on the retina for a brief period after the image is no longer present
 - B. The ability of the eye to see all colours in the visible spectrum
 - C. The process of converting RGB signals to HSV colour space
 - D. The technique used to reduce flicker in television displays

Question ID : 4410091202150
Option 1 ID : 4410094742360
Option 2 ID : 4410094742361
Option 3 ID : 4410094742358
Option 4 ID : 4410094742359
Status : Answered
Chosen Option : A

Q.24 Two switches are connected to operate a light such that the switch on the top floor in closed condition can create a close loop for a switch on the ground floor in closed condition.
Then, the given arrangement reflects a/an _____.

- Ans
- A. multiplexer
 - B. decoder
 - C. OR gate
 - D. AND gate

Question ID : 4410091185161
Option 1 ID : 4410094674793
Option 2 ID : 4410094674794
Option 3 ID : 4410094674796
Option 4 ID : 4410094674795
Status : Answered
Chosen Option : D

Q.25 What is the primary difference between a monostable multivibrator and a bistable multivibrator configuration of the 555 timer IC?

- Ans
- A. A monostable multivibrator has a fixed output duration, while a bistable multivibrator has a variable output duration.
 - B. A monostable multivibrator has one stable state, while a bistable multivibrator has two stable states.
 - C. A monostable multivibrator generates a fixed-frequency square wave, while a bistable multivibrator generates a variable-frequency pulse train.
 - D. A monostable multivibrator uses a single trigger pulse, while a bistable multivibrator uses three trigger pulses.

Question ID : 4410091196374
Option 1 ID : 4410094719290
Option 2 ID : 4410094719293
Option 3 ID : 4410094719291
Option 4 ID : 4410094719292
Status : Answered
Chosen Option : B

Q.26 Which instruction is used to move the immediate data to the Accumulator (A) in the 8051 microcontroller?

- Ans
- A. MOV R0, #data
 - B. MOV A, R0
 - C. MOV @R0, #data
 - D. MOV A, #data

Question ID : 4410091207234
Option 1 ID : 4410094762468
Option 2 ID : 4410094762466
Option 3 ID : 4410094762467
Option 4 ID : 4410094762469
Status : Answered
Chosen Option : D

Q.27 For a 4 : 1 mux, the arrangement is as given below.

Input line 1 is connected to A.
Input line 2 is connected to B.
Input line 3 is connected to D.
Input line 4 is connected to C.

The two select lines are shorted to D. The output equation realised using the MUX is:

Ans

A.

B.

C. $Y = A.B + C$

D. $Y = D.C$

Question ID : 4410091185171

Option 1 ID : 4410094674843

Option 2 ID : 4410094674844

Option 3 ID : 4410094674841

Option 4 ID : 4410094674842

Status : Answered

Chosen Option : C

Q.28 When testing an SCR in a simple DC circuit, which method correctly verifies that the device is functioning?

Ans

A. Apply a reverse voltage and gate current, check if it conducts.

B. Connect the SCR directly across a DC source without a load to see if it turns on automatically.

C. Apply gate current with the anode negative and check for conduction.

D. Apply gate current with anode positive and check if SCR latches after gate signal is removed.

Question ID : 4410091207337

Option 1 ID : 4410094762877

Option 2 ID : 4410094762874

Option 3 ID : 4410094762875

Option 4 ID : 4410094762876

Status : Answered

Chosen Option : D

Q.29 The main DISADVANTAGE of an analog CRO compared to a digital CRO is _____.

Ans

A. it cannot use trigger circuit

B. it cannot display amplitude

C. it cannot measure frequency

D. it cannot store waveforms

Question ID : 4410091241494

Option 1 ID : 4410094899331

Option 2 ID : 4410094899330

Option 3 ID : 4410094899329

Option 4 ID : 4410094899328

Status : Answered

Chosen Option : B

Q.30 Which of the following statements about electromagnetic relays is correct?

Ans A. Electromagnetic attraction relays operate only on AC quantities like current, voltage, or power.

 B. Electromagnetic induction relays operate on the solenoid principle and can work with AC or DC.

 C. Electromagnetic induction relays can be actuated by both AC and DC.

 D. Electromagnetic attraction relays operate by pulling a plunger or armature into the poles of an electromagnet and can work with both AC and DC.

Question ID : 4410091202765

Option 1 ID : 4410094744616

Option 2 ID : 4410094744619

Option 3 ID : 4410094744617

Option 4 ID : 4410094744618

Status : Answered

Chosen Option : A

Q.31 Why is a steel rule considered as a line standard and a slip gauge as an end standard?

Ans A. Steel rule measures directly; slip gauge measures indirectly

 B. Steel rule uses engraved markings; slip gauge uses surface-to-surface contact

 C. Steel rule is expensive; slip gauge is less costly

 D. Steel rule is portable; slip gauge is fixed in machines

Question ID : 4410091255635

Option 1 ID : 4410094955474

Option 2 ID : 4410094955473

Option 3 ID : 4410094955475

Option 4 ID : 4410094955476

Status : Answered

Chosen Option : D

Q.32 Quantum efficiency of an optical detector refers to the _____.

Ans A. ratio of photons absorbed to photons incident

 B. ratio of electron-hole pairs generated to the incident photons

 C. ratio of photons reflected to photons incident

 D. ratio of current output to applied voltage

Question ID : 4410091224532

Option 1 ID : 4410094831603

Option 2 ID : 4410094831604

Option 3 ID : 4410094831606

Option 4 ID : 4410094831605

Status : Answered

Chosen Option : D

Q.33 The configuration of an AC to DC converter and a DC to AC inverter is called a/an _____.

Ans A. rectifier

 B. DC link converter

 C. oscillator

 D. filter

Question ID : 4410091186863

Option 1 ID : 4410094681598

Option 2 ID : 4410094681601

Option 3 ID : 4410094681600

Option 4 ID : 4410094681599

Status : Answered

Chosen Option : B

Q.34 Which instrument is commonly used to measure the resistance of a coil?

- Ans
- A. Megger
 - B. Ohmmeter
 - C. Voltmeter
 - D. CRO

Question ID : 4410091246898
Option 1 ID : 4410094920834
Option 2 ID : 4410094920835
Option 3 ID : 4410094920833
Option 4 ID : 4410094920836
Status : Answered
Chosen Option : A

Q.35 Which of the following statements is correct?

- Ans
- A. Primary cells are single-use, non-rechargeable batteries, while secondary cells are rechargeable batteries.
 - B. Secondary cells are single-use, non-rechargeable batteries.
 - C. Primary cells are multi-use and rechargeable batteries.
 - D. Both primary and secondary batteries are single use and non-rechargeable.

Question ID : 4410091186900
Option 1 ID : 4410094681743
Option 2 ID : 4410094681744
Option 3 ID : 4410094681742
Option 4 ID : 4410094681745
Status : Answered
Chosen Option : A

Q.36 Which fastening method is quickly removable and reusable?

- Ans
- A. Welding
 - B. Nut and bolt
 - C. Brazing
 - D. Riveting

Question ID : 4410091255653
Option 1 ID : 4410094955545
Option 2 ID : 4410094955546
Option 3 ID : 4410094955548
Option 4 ID : 4410094955547
Status : Answered
Chosen Option : B

Q.37 Why insulation resistance test should be done on underground cables before and after installation?

- Ans
- A. To ensure insulation has not deteriorated during storage or laying
 - B. To check the continuity of conductors
 - C. To verify sheath conductivity
 - D. To measure copper losses

Question ID : 4410091224175
Option 1 ID : 4410094830156
Option 2 ID : 4410094830155
Option 3 ID : 4410094830157
Option 4 ID : 4410094830158
Status : Answered
Chosen Option : A

Q.38 While calibrating a CRO, the _____ signal of the built-in or external generator is used to verify time and amplitude settings.

Ans A. step

 B. ramp

 C. impulse

 D. square

Question ID : 4410091186832

Option 1 ID : 4410094681481

Option 2 ID : 4410094681478

Option 3 ID : 4410094681480

Option 4 ID : 4410094681479

Status : Not Answered

Chosen Option : --

Q.39 Which of the following correctly lists the three terminals of a Unijunction Transistor (UJT)?

Ans A. Emitter (E), Base1 (B1), Base2 (B2)

 B. Emitter (E), Collector (C), Base (B)

 C. Anode (A), Cathode (K), Gate (G)

 D. Source (S), Drain (D), Gate (G)

Question ID : 4410091207356

Option 1 ID : 4410094762953

Option 2 ID : 4410094762951

Option 3 ID : 4410094762950

Option 4 ID : 4410094762952

Status : Answered

Chosen Option : B

Q.40 In a rewirable type fuse, the fuse element is _____.

Ans A. only closed

 B. open or semi-closed

 C. only semi-closed

 D. only open

Question ID : 4410091186869

Option 1 ID : 4410094681623

Option 2 ID : 4410094681624

Option 3 ID : 4410094681625

Option 4 ID : 4410094681622

Status : Not Answered

Chosen Option : --

Q.41 Which of the following statements about an injection laser diode (ILD) used for optical communications is correct?

- Ans
- A. LEDs generally provide higher optical output power than injection lasers.
 - B. The optical cavity in an injection laser provides photon feedback, enhancing stimulated emission.
 - C. Injection lasers typically have a broad linewidth exceeding 50 nm, making them prone to material dispersion.
 - D. An injection laser diode relies on spontaneous emission from injected carriers in a forward-biased p–n junction for its optical output.

Question ID : 4410091200721
Option 1 ID : 4410094736756
Option 2 ID : 4410094736758
Option 3 ID : 4410094736757
Option 4 ID : 4410094736759
Status : Answered
Chosen Option : D

Q.42 The oxy-acetylene flame is preferred for sheet metal fabrication work because _____.

- Ans
- A. it is more piercing than metallic arc welding
 - B. it is cheaper than metallic arc welding
 - C. it produces higher heat than all other welding processes
 - D. it is easily controlled and less piercing than metallic arc welding

Question ID : 4410091205621
Option 1 ID : 4410094756024
Option 2 ID : 4410094756023
Option 3 ID : 4410094756026
Option 4 ID : 4410094756025
Status : Answered
Chosen Option : D

Q.43 The maximum current a photovoltaic cell can produce under a given illumination is known as the:

- Ans
- A. locking current
 - B. holding current
 - C. threshold current
 - D. short circuit current

Question ID : 4410091185047
Option 1 ID : 4410094674299
Option 2 ID : 4410094674298
Option 3 ID : 4410094674301
Option 4 ID : 4410094674300
Status : Answered
Chosen Option : C

Q.44 In the 8051 microcontroller, which register is not directly addressable through instructions?

Ans A. Accumulator (A)

 B. Data Pointer (DPTR)

 C. Program Counter (PC)

 D. Stack Pointer (SP)

Question ID : 4410091254785

Option 1 ID : 4410094952124

Option 2 ID : 4410094952127

Option 3 ID : 4410094952125

Option 4 ID : 4410094952126

Status : Answered

Chosen Option : C

Q.45 If the DC load line of a fixed bias BJT CE configuration intersects the Y axis at 4 mA and X-axis at 10 V on the output characteristics, then determine the value of the resistance Rc if saturation voltage between collector and emitter is 0.2 V.

Ans A. 2050 Ω

 B. 245 Ω

 C. 1500 Ω

 D. 2450 Ω

Question ID : 4410091185025

Option 1 ID : 4410094674210

Option 2 ID : 4410094674211

Option 3 ID : 4410094674213

Option 4 ID : 4410094674212

Status : Not Attempted and Marked For Review

Chosen Option : --

Q.46 एक बढ़ई एक ऐसे प्रोजेक्ट पर कार्य कर रहा है, जिसमें प्लाईवुड के एक टुकड़े पर सीधी रेखा काटनी है। इस कार्य के लिए निम्नलिखित में से कौन-सा हस्त औज़ार (hand tool) सबसे उपयुक्त होगा?

Ans A. छेनी (Chisel)

 B. जिम्सॉ (Jigsaw)

 C. प्लेन (Plane)

 D. (Handsaw)

Question ID : 4410091208486

Option 1 ID : 4410094774453

Option 2 ID : 4410094774451

Option 3 ID : 4410094774450

Option 4 ID : 4410094774452

Status : Answered

Chosen Option : B

Q.47 Determine the value of the average current for a half-wave rectifier designed using SCR and having a firing angle of 90 degrees, if the peak value of the output current is 1π Amperes.

- Ans A. 0.5 A
- B. 2 A
- C. 3 A
- D. 1 A

Question ID : 4410091186848
Option 1 ID : 4410094681544
Option 2 ID : 4410094681543
Option 3 ID : 4410094681545
Option 4 ID : 4410094681542
Status : Not Answered
Chosen Option : --

Q.48 The capacitance of a capacitor can be checked using _____.

- Ans A. LCR meter
- B. ring test
- C. megger
- D. CRO waveform test

Question ID : 4410091246925
Option 1 ID : 4410094920942
Option 2 ID : 4410094920944
Option 3 ID : 4410094920943
Option 4 ID : 4410094920941
Status : Answered
Chosen Option : A

Q.49 The supply voltage to a UJT oscillator is 10 V, the valley voltage of the UJT is 8 V, and the valley current is 0.2 m A. Determine the minimum value of R and the time constant if $C = 100 \mu F$.

- Ans A. 1 K Ω , 10 sec
- B. 10 K Ω , 1 sec
- C. 1 K Ω , 1 sec
- D. 10 K Ω , 10 sec

Question ID : 4410091186852
Option 1 ID : 4410094681560
Option 2 ID : 4410094681561
Option 3 ID : 4410094681559
Option 4 ID : 4410094681558
Status : Not Answered
Chosen Option : --

Q.50 In a lead-acid battery, multiple thin plates are used instead of single thick plates in order to _____.

- Ans
- A. increase surface area and hence current capacity
 - B. reduce weight
 - C. increase the voltage
 - D. reduce electrolyte requirement

Question ID : 4410091255591
Option 1 ID : 4410094955307
Option 2 ID : 4410094955306
Option 3 ID : 4410094955305
Option 4 ID : 4410094955308
Status : Answered
Chosen Option : A

Q.51 The main principle of operation of a Miniature Circuit Breaker (MCB) is based on _____.

- Ans
- A. capacitive charging and discharging
 - B. thermal effect of current and magnetic effect of current
 - C. eddy current damping and resonance
 - D. electromagnetic induction and electrostatic force

Question ID : 4410091254826
Option 1 ID : 4410094952286
Option 2 ID : 4410094952285
Option 3 ID : 4410094952287
Option 4 ID : 4410094952284
Status : Answered
Chosen Option : B

Q.52 Horizontal and vertical resolution of a TV system primarily depends upon ____ and _____, respectively.

- Ans
- A. aspect ratio ; sync pulse duration
 - B. bandwidth of the video signal ; number of scanning lines per frame
 - C. audio channel bandwidth ; brightness control
 - D. frame rate ; channel bandwidth

Question ID : 4410091233365
Option 1 ID : 4410094867156
Option 2 ID : 4410094867154
Option 3 ID : 4410094867157
Option 4 ID : 4410094867155
Status : Answered
Chosen Option : B

Q.53 A Type C MCB with a nominal current rating of 20 A will instantaneously trip (within 0.1 seconds) if the fault current falls within which of the following ranges?

- Ans A. 40 A to 100 A
 B. 100 A to 400 A
 C. 100 A to 200 A
 D. 60 A to 100 A

Question ID : 4410091207830
Option 1 ID : 4410094765486
Option 2 ID : 4410094765489
Option 3 ID : 4410094765488
Option 4 ID : 4410094765487
Status : Answered
Chosen Option : A

Q.54 What is the output of a NOT gate when the input is 1?

- Ans A. 0
 B. Undefined
 C. High Impedance
 D. 1

Question ID : 4410091202232
Option 1 ID : 4410094742691
Option 2 ID : 4410094742693
Option 3 ID : 4410094742692
Option 4 ID : 4410094742690
Status : Answered
Chosen Option : A

Q.55 An electrical circuit has 4 nodes, P, Q, R and S, such that 3 resistors of 10 Ω are placed between P and Q; Q and R; and R and S. P and R are shorted; Q and S are shorted. What is the equivalent resistance between nodes P and S?

- Ans A. 3.33 Ω
 B. 30 Ω
 C. 15 Ω
 D. 5 Ω

Question ID : 4410091185216
Option 1 ID : 4410094675043
Option 2 ID : 4410094675041
Option 3 ID : 4410094675044
Option 4 ID : 4410094675042
Status : Answered
Chosen Option : A

Q.56 In relays, a movable piece of metal that is attracted to the electromagnet when it is energised is called a/an ____.

- Ans
- A. armature
 - B. contact
 - C. electromagnet
 - D. spring

Question ID : 4410091185211
Option 1 ID : 4410094675022
Option 2 ID : 4410094675023
Option 3 ID : 4410094675021
Option 4 ID : 4410094675024
Status : Answered
Chosen Option : A

Q.57 Which filler metal is used exclusively on aluminium-base metals in torch soldering?

- Ans
- A. Tin-antimony
 - B. Tin-silver
 - C. Zinc-aluminium
 - D. Tin-lead

Question ID : 4410091205450
Option 1 ID : 4410094755334
Option 2 ID : 4410094755332
Option 3 ID : 4410094755333
Option 4 ID : 4410094755331
Status : Answered
Chosen Option : D

Q.58 Which of the following statements is INCORRECT regarding soldering and brazing?

- Ans
- A. Brazed joints are generally stronger than soldered joints.
 - B. Soldering uses silver, copper, or nickel-based alloys as filler material.
 - C. Soldering produces weaker joints, suitable for low-stress applications like electronics and fine jewellery.
 - D. Brazing is used for joining metal pipes in plumbing, repairing automotive parts, and joining metal components in HVAC systems.

Question ID : 4410091186800
Option 1 ID : 4410094681352
Option 2 ID : 4410094681353
Option 3 ID : 4410094681350
Option 4 ID : 4410094681351
Status : Answered
Chosen Option : C

Q.59 Two inductors of 15 H and 30 H are connected in parallel. What is the equivalent inductance?

- Ans
- A. 5 H
 - B. 10 H
 - C. 12 H
 - D. 40 H

Question ID : 4410091241263
Option 1 ID : 4410094898405
Option 2 ID : 4410094898402
Option 3 ID : 4410094898403
Option 4 ID : 4410094898404
Status : Answered
Chosen Option : B

Q.60 During routine testing of an MCB, the contact resistance is checked using _____.

- Ans
- A. a megger
 - B. a voltmeter
 - C. a frequency counter
 - D. a low-resistance ohmmeter / micro-ohmmeter

Question ID : 4410091255564
Option 1 ID : 4410094955212
Option 2 ID : 4410094955210
Option 3 ID : 4410094955213
Option 4 ID : 4410094955211
Status : Answered
Chosen Option : D

Q.61 In an AC circuit, the current through a capacitor _____.

- Ans
- A. leads voltage by 90°
 - B. lags voltage by 90°
 - C. lags voltage by 180°
 - D. in phase with voltage

Question ID : 4410091241396
Option 1 ID : 4410094898941
Option 2 ID : 4410094898940
Option 3 ID : 4410094898943
Option 4 ID : 4410094898942
Status : Answered
Chosen Option : B

Q.62 Consider a circuit with a 12 V battery, a 4 Ω resistor, and a 6 Ω resistor connected in series. What is the voltage drop across the 6 Ω resistor according to Kirchhoff's voltage law?

- Ans
- A. 12 V
 - B. 7.2 V
 - C. 6.8 V
 - D. 8.4 V

Question ID : 4410091196392
Option 1 ID : 4410094719381
Option 2 ID : 4410094719379
Option 3 ID : 4410094719380
Option 4 ID : 4410094719378
Status : Not Answered
Chosen Option : --

Q.63 Which component is most suitable to design the direct method of frequency modulation generation?

- Ans
- A. Schottky diode
 - B. Zener diode
 - C. Varactor diode
 - D. PIN diode

Question ID : 4410091185112
Option 1 ID : 4410094674602
Option 2 ID : 4410094674599
Option 3 ID : 4410094674601
Option 4 ID : 4410094674600
Status : Answered
Chosen Option : A

Q.64 The neutral oxy-acetylene flame is generally preferred for soldering/brazing because _____.

- Ans
- A. it avoids oxidation and carburization
 - B. it burns at the lowest temperature
 - C. it produces excess oxygen
 - D. it is easier to ignite

Question ID : 4410091247040
Option 1 ID : 4410094921402
Option 2 ID : 4410094921403
Option 3 ID : 4410094921401
Option 4 ID : 4410094921404
Status : Answered
Chosen Option : A

Q.65 The efficiency of the transformer is maximum when _____.

- Ans
- A. Copper Loss = Core Loss
 - B. Iron Loss = Total Loss
 - C. Copper Loss = Eddy Current Loss
 - D. Hysteresis Loss = Eddy Current Loss

Question ID : 4410091208829
Option 1 ID : 4410094768813
Option 2 ID : 4410094768811
Option 3 ID : 4410094768810
Option 4 ID : 4410094768812
Status : Not Answered
Chosen Option : --

Q.66 Which of the following methods is the most reliable to test an LED?

- Ans
- A. Measuring the resistance of an LED with ohmmeter
 - B. Applying the forward voltage with current limiting resistance and observing the LED light visually
 - C. Measuring the LED capacitance with multimeter
 - D. Measuring the leakage current of an LED in reverse bias

Question ID : 4410091203613
Option 1 ID : 4410094747959
Option 2 ID : 4410094747960
Option 3 ID : 4410094747957
Option 4 ID : 4410094747958
Status : Answered
Chosen Option : B

Q.67 During the reverse bias of a PN junction, the depletion region width _____.

- Ans A. increases
- B. decreases
- C. remains constant
- D. first increases and then decreases

Question ID : 4410091208955
Option 1 ID : 4410094769319
Option 2 ID : 4410094769318
Option 3 ID : 4410094769320
Option 4 ID : 4410094769321
Status : Not Answered
Chosen Option : --

Q.68 What is the primary function of a series clipper in an electronic circuit?

- Ans A. To amplify the input signal
- B. To limit the positive or negative peaks of the input signal
- C. To invert the input signal
- D. To filter out high-frequency components from the input signal

Question ID : 4410091196476
Option 1 ID : 4410094719765
Option 2 ID : 4410094719764
Option 3 ID : 4410094719763
Option 4 ID : 4410094719762
Status : Answered
Chosen Option : D

Q.69 While observing the sinusoidal signal on a CRO, if the time per/division, which was originally pointing on 1 msec, is now shifted to 2 msec, then the _____.

- Ans A. original waveform expands and measured time period gets doubled
- B. original waveform expands but measured time period remains the same
- C. original waveform compresses and measured time period becomes half
- D. original waveform compresses but measured time period remains the same

Question ID : 4410091185240
Option 1 ID : 4410094675139
Option 2 ID : 4410094675137
Option 3 ID : 4410094675140
Option 4 ID : 4410094675138
Status : Answered
Chosen Option : A

Q.70 Which standard specifies the testing requirements for protective relays?

- Ans A. IEC 60255
- B. IEC 61000
- C. IEC 60364
- D. IEC 60947

Question ID : 4410091205427
Option 1 ID : 4410094755239
Option 2 ID : 4410094755241
Option 3 ID : 4410094755242
Option 4 ID : 4410094755240
Status : Not Answered
Chosen Option : --

Section : Engg Drawing and Workshop

Q.1 Why are clips preferred over pins in some cases?

- Ans
- A. Stronger grip
 - B. No holes in the paper
 - C. More attractive
 - D. Cheaper

Question ID : 4410091190901
Option 1 ID : 4410094697909
Option 2 ID : 4410094697908
Option 3 ID : 4410094697907
Option 4 ID : 4410094697910
Status : Answered
Chosen Option : B

Q.2 Which pencil grade is best for freehand sketching?

- Ans
- A. 6H
 - B. 8B
 - C. 4H
 - D. HB

Question ID : 4410091210122
Option 1 ID : 4410094773982
Option 2 ID : 4410094773984
Option 3 ID : 4410094773983
Option 4 ID : 4410094773985
Status : Answered
Chosen Option : C

Q.3 The correct expression for the lateral surface area of a hexagonal bar is:

- Ans
- A. 6 x length of the bar x side of hexagon
 - B. 6 x side of hexagon / length of the bar
 - C. 6 x length of the bar / side of hexagon
 - D. 6 x length of the bar

Question ID : 4410091295657
Option 1 ID : 4410095114591
Option 2 ID : 4410095114592
Option 3 ID : 4410095114590
Option 4 ID : 4410095114589
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.4 Which arrowhead type is commonly used in engineering drawings?

- Ans
- A. Square
 - B. Dot
 - C. Closed filled
 - D. Open

Question ID : 4410091190755
Option 1 ID : 4410094697336
Option 2 ID : 4410094697335
Option 3 ID : 4410094697334
Option 4 ID : 4410094697333
Status : Answered
Chosen Option : B

Q.5 Which type of protractors offers the highest accuracy?

- Ans
- A. Metal
 - B. Plastic
 - C. Vernier
 - D. Semicircular

Question ID : 4410091198351
Option 1 ID : 4410094727300
Option 2 ID : 4410094727299
Option 3 ID : 4410094727301
Option 4 ID : 4410094727302
Status : Answered
Chosen Option : C

Q.6 What is the value of the square root of 45796?

- Ans
- A. 224
 - B. 244
 - C. 234
 - D. 214

Question ID : 4410091295429
Option 1 ID : 4410095113682
Option 2 ID : 4410095113684
Option 3 ID : 4410095113683
Option 4 ID : 4410095113681
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.7 Which factor is important in an electronic layout diagram?

- Ans
- A. Font size
 - B. Wire colour
 - C. Signal path length
 - D. Drawing style

Question ID : 4410091207067
Option 1 ID : 4410094761797
Option 2 ID : 4410094761796
Option 3 ID : 4410094761794
Option 4 ID : 4410094761795
Status : Answered
Chosen Option : D

Q.8 Which of the following insulators is used in the bottom of irons and kettles?

- Ans
- A. Mica
 - B. Asbestos
 - C. Porcelain
 - D. Rubber

Question ID : 4410091295575
Option 1 ID : 4410095114265
Option 2 ID : 4410095114267
Option 3 ID : 4410095114268
Option 4 ID : 4410095114266
Status : Answered
Chosen Option : C

Q.9 Which block provides results in a human-readable form?

- Ans
- A. Feedback
 - B. Sensor
 - C. Display/Output
 - D. Conditioning

Question ID : 4410091207154
Option 1 ID : 4410094762149
Option 2 ID : 4410094762146
Option 3 ID : 4410094762148
Option 4 ID : 4410094762147
Status : Answered
Chosen Option : C

Q.10 What is a common advantage of block diagrams?

- Ans
- A. Allows easy system understanding
 - B. Requires exact measurements
 - C. Hides the system structure
 - D. Shows all electrical details

Question ID : 4410091207046
Option 1 ID : 4410094761712
Option 2 ID : 4410094761710
Option 3 ID : 4410094761711
Option 4 ID : 4410094761713
Status : Answered
Chosen Option : A

Q.11 Which line indicates the extreme positions of movable parts?

- Ans
- A. Continuous thick
 - B. Continuous thin
 - C. Chain thin double-dashed
 - D. Dashed thin

Question ID : 4410091200778
Option 1 ID : 4410094736875
Option 2 ID : 4410094736873
Option 3 ID : 4410094736872
Option 4 ID : 4410094736874
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.12 What is the value of 35.4-minute angle in degrees?

- Ans
- A. 0.64 degrees
 - B. 0.38 degrees
 - C. 0.59 degrees
 - D. 0.78 degrees

Question ID : 4410091295445
Option 1 ID : 4410095113747
Option 2 ID : 4410095113745
Option 3 ID : 4410095113746
Option 4 ID : 4410095113748
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.13 The carbon content in mild steel ranges from:

- Ans A. 2 to 4.5%
 B. 4.8 to 7%
 C. 0.1 to 0.25%
 D. 0.5 to 1.7%

Question ID : 4410091295497
Option 1 ID : 4410095113955
Option 2 ID : 4410095113956
Option 3 ID : 4410095113953
Option 4 ID : 4410095113954
Status : Answered
Chosen Option : B

Q.14 What is the value of 9/16 in decimal?

- Ans A. 0.5625
 B. 0.5025
 C. 0.5333
 D. 0.5455

Question ID : 4410091295322
Option 1 ID : 4410095113251
Option 2 ID : 4410095113249
Option 3 ID : 4410095113250
Option 4 ID : 4410095113252
Status : Answered
Chosen Option : A

Q.15

- Ans A. $2\pi rh$
 B.
 C.
 D.

Question ID : 4410091295644
Option 1 ID : 4410095114537
Option 2 ID : 4410095114538
Option 3 ID : 4410095114540
Option 4 ID : 4410095114539
Status : Answered
Chosen Option : B

Q.16 Nonfunctional dimensioning is used in:

- Ans A. manufacturing critical parts
 B. assembly drawings
 C. heat-treatment instructions
 D. engineering fits

Question ID : 4410091208751
Option 1 ID : 4410094768505
Option 2 ID : 4410094768504
Option 3 ID : 4410094768507
Option 4 ID : 4410094768506
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.17 Which pencil grade is ideal for clean straight lines?

- Ans A. HB
 B. 2H
 C. 3B
 D. 6B

Question ID : 4410091203826
Option 1 ID : 4410094748790
Option 2 ID : 4410094748791
Option 3 ID : 4410094748792
Option 4 ID : 4410094748789
Status : Not Attempted and
Marked For Review
Chosen Option : --

Q.18 When $\frac{7}{16}$ is subtracted from $\frac{17}{32}$, we get:

- Ans A. $\frac{31}{32}$
 B. $-\frac{3}{32}$
 C. $\frac{10}{32}$
 D. $\frac{3}{32}$

Question ID : 4410091295365
Option 1 ID : 4410095113422
Option 2 ID : 4410095113421
Option 3 ID : 4410095113423
Option 4 ID : 4410095113424
Status : Answered
Chosen Option : B

Q.19 What is the value of side BC in a right-angle triangle ABC (right angled at B), if AB = 5 cm and AC = 13 cm?

- Ans A. 12 cm
 B. 10 cm
 C. 13.6 cm
 D. 18 cm

Question ID : 4410091295421
Option 1 ID : 4410095113642
Option 2 ID : 4410095113644
Option 3 ID : 4410095113641
Option 4 ID : 4410095113643
Status : Answered
Chosen Option : D

Q.20 Which of the following metals is a ferrous metal?

- Ans A. Mild steel
 B. Copper
 C. Aluminium
 D. Lead

Question ID : 4410091295606
Option 1 ID : 4410095114387
Option 2 ID : 4410095114386
Option 3 ID : 4410095114385
Option 4 ID : 4410095114388
Status : Answered
Chosen Option : D

Q.21 Which line is used to indicate measurements on sketches?

- Ans
- A. Cutting line
 - B. Border line
 - C. Section line
 - D. Dimension line

Question ID : 4410091211069
Option 1 ID : 4410094777772
Option 2 ID : 4410094777771
Option 3 ID : 4410094777770
Option 4 ID : 4410094777769
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.22 If A : B = 2 : 3 and B : C = 4 : 5, then what will be the ratio of A : B : C?

- Ans
- A. 8 : 12 : 15
 - B. 3 : 4 : 5
 - C. 6 : 10 : 14
 - D. 2 : 5 : 12

Question ID : 4410091303591
Option 1 ID : 4410095146355
Option 2 ID : 4410095146353
Option 3 ID : 4410095146356
Option 4 ID : 4410095146354
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.23 Which of the following is a pure substance?

- Ans
- A. Alloy steel
 - B. Low-carbon steel
 - C. Cast iron
 - D. High-carbon steel

Question ID : 4410091295511
Option 1 ID : 4410095114010
Option 2 ID : 4410095114011
Option 3 ID : 4410095114009
Option 4 ID : 4410095114012
Status : Answered
Chosen Option : A

Q.24 What is the CGS unit of retardation?

- Ans
- A. Gram per cubic centimetre
 - B. Centimetre per square second
 - C. Newton per square metre
 - D. Radian per second

Question ID : 4410091295386
Option 1 ID : 4410095113507
Option 2 ID : 4410095113506
Option 3 ID : 4410095113508
Option 4 ID : 4410095113505
Status : Answered
Chosen Option : D

Q.25 Which instrument is suitable for long parallel lines?

- Ans A. T-square
 B. Offset scale
 C. Compass
 D. Divider

Question ID : 4410091200829
Option 1 ID : 4410094737064
Option 2 ID : 4410094737067
Option 3 ID : 4410094737065
Option 4 ID : 4410094737066
Status : Not Attempted and
Marked For Review
Chosen Option : --

Q.26 Before drawing, where should you place the zero mark of the scale?

- Ans A. At the end
 B. Anywhere
 C. At the start point
 D. At midpoint

Question ID : 4410091203794
Option 1 ID : 4410094748664
Option 2 ID : 4410094748661
Option 3 ID : 4410094748662
Option 4 ID : 4410094748663
Status : Answered
Chosen Option : C

Q.27 What will be the area of a brass sheet, that is in the form of a square whose perimeter is 32 cm?

- Ans A. 64 cm²
 B. 32 cm²
 C. 256 cm²
 D. 128 cm²

Question ID : 4410091295627
Option 1 ID : 4410095114470
Option 2 ID : 4410095114469
Option 3 ID : 4410095114472
Option 4 ID : 4410095114471
Status : Not Attempted and
Marked For Review
Chosen Option : --

Q.28 Vimal invested ₹3,000 for 1 year at 7% per annum. What will be the amount received by him at the end of one year?

- Ans A. ₹3,210
 B. ₹210
 C. ₹201
 D. ₹3,021

Question ID : 4410091303579
Option 1 ID : 4410095146298
Option 2 ID : 4410095146297
Option 3 ID : 4410095146300
Option 4 ID : 4410095146299
Status : Answered
Chosen Option : A

Q.29 Which tool is used for drawing smooth curves?

- Ans A. French curve
 B. Set square
 C. Protractor
 D. Compass

Question ID : 4410091198373
Option 1 ID : 4410094727388
Option 2 ID : 4410094727387
Option 3 ID : 4410094727389
Option 4 ID : 4410094727390
Status : Answered
Chosen Option : D

Q.30 Which figure has no straight edges?

- Ans A. Circle
 B. Square
 C. Rectangle
 D. Triangle

Question ID : 4410091204542
Option 1 ID : 4410094751672
Option 2 ID : 4410094751673
Option 3 ID : 4410094751674
Option 4 ID : 4410094751671
Status : Answered
Chosen Option : A

Q.1 The number of subscribers to a channel increase successively by 20% and 10%. Find the net percentage increase in the subscribers.

- Ans
- A. 26%
 - B. 30%
 - C. 28%
 - D. 32%

Question ID : 4410091262699
Option 1 ID : 4410094983738
Option 2 ID : 4410094983736
Option 3 ID : 4410094983737
Option 4 ID : 4410094983735
Status : Answered
Chosen Option : D

Q.2 Seven people, A, B, C, D, E, F and G are sitting in a straight line, facing north. Only two people sit to the left of A. Exactly three people sit between A and C. D is an immediate neighbour of both F and B. G sits to the immediate left of E. Only two people sit between F and G. How many people sit between E and B?

- Ans
- A. Three
 - B. One
 - C. Four
 - D. Two

Question ID : 441009755602
Option 1 ID : 4410092976403
Option 2 ID : 4410092976401
Option 3 ID : 4410092976404
Option 4 ID : 4410092976402
Status : Answered
Chosen Option : A

Q.3 In a certain code language, 'FOAL' is coded as '9087' and 'COAL' is coded as '6908'. What is the code for 'F' in that language?

5208

- Ans
- A. 7
 - B. 6
 - C. 8
 - D. 0

Question ID : 441009694436
Option 1 ID : 4410092731774
Option 2 ID : 4410092731775
Option 3 ID : 4410092731777
Option 4 ID : 4410092731776
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.4 Two pipes, A and B, together can fill a cistern in 3 hours. If they were opened one at a time, B would take 8 hours more than A to fill the cistern. How much time (in hours) will it take for only A to fill two such cisterns?⁴⁸⁷

- Ans
- A. 6
 - B. 4
 - C. 8
 - D. 10

Question ID : 4410091106624
Option 1 ID : 4410094363491
Option 2 ID : 4410094363490
Option 3 ID : 4410094363492
Option 4 ID : 4410094363493
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.5 Seven boxes A, B, C, D, E, F and G are stacked one on top of another, but not necessarily in the same order. C is kept at the fourth position from the bottom. Exactly two boxes are kept between B and G. A is kept immediately above G. Only F is kept immediately below D. Which box is third from the top?

- Ans
- A. D
 - B. E
 - C. G
 - D. A

Question ID : 441009758988
Option 1 ID : 4410092989946
Option 2 ID : 4410092989948
Option 3 ID : 4410092989945
Option 4 ID : 4410092989947
Status : Answered
Chosen Option : B

Q.6 Which of the following ratios is the greatest?

- Ans
- A. 5 : 4
 - B. 9 : 7
 - C. 6 : 5
 - D. 8 : 5

Question ID : 4410091263053
Option 1 ID : 4410094985159
Option 2 ID : 4410094985162
Option 3 ID : 4410094985160
Option 4 ID : 4410094985161
Status : Answered
Chosen Option : C

Q.7 In a certain code language,
A & B means 'A is the son of B',
A @ B means 'A is the brother of B',
A + B means 'A is the wife of B' and
A x B means 'A is the father of B'.
How is V related to G if 'V & R + T @ H x G'?10804

- Ans
- A. Brother's son
 - B. Mother's brother's son
 - C. Brother
 - D. Father's brother's son

Question ID : 441009716973
Option 1 ID : 4410092821864
Option 2 ID : 4410092821865
Option 3 ID : 4410092821866
Option 4 ID : 4410092821863
Status : Answered
Chosen Option : D

Q.8 Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number results in the second number. Similarly, certain mathematical operation(s) on the second number results 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/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

8 - 13 - 26 - 39; 11 - 16 - 32 - 48

- Ans
- A. 12 - 17 - 34 - 51
 - B. 10 - 15 - 30 - 40
 - C. 18 - 23 - 26 - 52
 - D. 14 - 19 - 38 - 52

Question ID : 441009588576
Option 1 ID : 4410092309430
Option 2 ID : 4410092309431
Option 3 ID : 4410092309432
Option 4 ID : 4410092309433
Status : Answered
Chosen Option : A

Q.9 What will be the difference between simple and compound interest (compounded annually) on a sum of ₹9,000 for 2 years at 5% per annum?

- Ans
- A. ₹22.50
 - B. ₹25.60
 - C. ₹20.40
 - D. ₹24.50

Question ID : 4410091262583
Option 1 ID : 4410094983271
Option 2 ID : 4410094983274
Option 3 ID : 4410094983273
Option 4 ID : 4410094983272
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.10 If 'S' stands for '-', 'T' stands for 'x', 'U' stands for '÷' and 'V' stands for '+', what will come in place of the question mark (?) in the following equation?

$$20 \text{ U } 4 \text{ V } 11 \text{ S } 8 \text{ T } 2 = ?$$

- Ans
- A. 14
 - B. 7
 - C. -7
 - D. 0

Question ID : 441009556620
Option 1 ID : 4410092181797
Option 2 ID : 4410092181796
Option 3 ID : 4410092181794
Option 4 ID : 4410092181795
Status : Answered
Chosen Option : D

Q.11 If 2 is subtracted from each odd digit and 3 is added to each even digit in the number 76942563, then what will be sum of the greatest and smallest digits in the number thus formed?

- Ans
- A. 9
 - B. 8
 - C. 10
 - D. 7

Question ID : 441009588891
Option 1 ID : 4410092310692
Option 2 ID : 4410092310693
Option 3 ID : 4410092310690
Option 4 ID : 4410092310691
Status : Answered
Chosen Option : C

Q.12 Find the value of $1\frac{3}{5} + 1\frac{8}{9} + 3\frac{4}{5}$.

- Ans
- A.
 - B. $4\frac{13}{45}$
 - C. $7\frac{13}{45}$
 - D.

Question ID : 441009363948
Option 1 ID : 4410091422044
Option 2 ID : 4410091422042
Option 3 ID : 4410091422045
Option 4 ID : 4410091422043
Status : Answered
Chosen Option : C

Q.13 If the simple interest on a certain sum for 2 years is one-fifth of the sum, then find the rate of interest per annum.

- Ans A. 10%
 B. 9%
 C. 9.5%
 D. 8%

Question ID : 4410091262539
Option 1 ID : 4410094983089
Option 2 ID : 4410094983090
Option 3 ID : 4410094983092
Option 4 ID : 4410094983091
Status : Answered
Chosen Option : A

Q.14

- Ans A. $\frac{1}{6}$
 B. $\frac{5}{6}$
 C. $\frac{1}{8}$
 D. $\frac{3}{8}$

Question ID : 4410091238489
Option 1 ID : 4410094887478
Option 2 ID : 4410094887479
Option 3 ID : 4410094887481
Option 4 ID : 4410094887480
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.15 Vishal ranked 15th from the top and 67th from the bottom in his class. How many students are there in his class?

- Ans A. 80
 B. 82
 C. 81
 D. 83

Question ID : 441009755663
Option 1 ID : 4410092976646
Option 2 ID : 4410092976647
Option 3 ID : 4410092976645
Option 4 ID : 4410092976648
Status : Answered
Chosen Option : C

Q.16 The number 535486 is divisible by:

- Ans A. 35
 B. 46
 C. 36
 D. 58

Question ID : 441009911432
Option 1 ID : 4410093599982
Option 2 ID : 4410093599979
Option 3 ID : 4410093599981
Option 4 ID : 4410093599980
Status : Not Answered
Chosen Option : --

Q.17 If the radius of a sphere is 13 cm, then its surface area is:

- Ans A. $676 \pi \text{ cm}^2$
 B. $338 \pi \text{ cm}^2$
 C. $689 \pi \text{ cm}^2$
 D. $684 \pi \text{ cm}^2$

Question ID : 441009595199
Option 1 ID : 4410092335913
Option 2 ID : 4410092335916
Option 3 ID : 4410092335914
Option 4 ID : 4410092335915
Status : Answered
Chosen Option : C

Q.18 In a test, B got 58 marks while A got 80 marks, out of 105 maximum marks. What percentage of A's marks was B's marks?

- Ans A. 76.19%
 B. 72.5%
 C. 137.93%
 D. 105%

Question ID : 4410091109829
Option 1 ID : 4410094376313
Option 2 ID : 4410094376310
Option 3 ID : 4410094376311
Option 4 ID : 4410094376312
Status : Answered
Chosen Option : C

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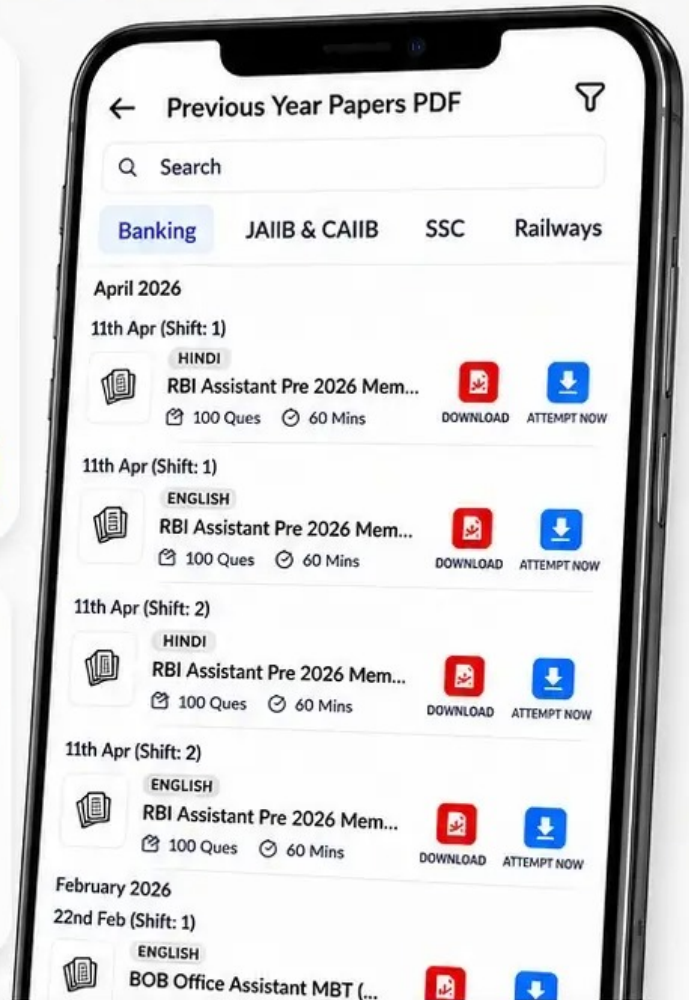
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Q.19 Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number results in the second number. Similarly, certain mathematical operation(s) on the second number results in the third number and 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 / subtracting / multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

10 - 20 - 40 - 50; 2 - 4 - 8 - 18

- Ans A. 20 - 40 - 80 - 100
 B. 3 - 6 - 12 - 24
 C. 1 - 2 - 4 - 14
 D. 5 - 10 - 20 - 40

Question ID : 441009315019
Option 1 ID : 4410091226553
Option 2 ID : 4410091226552
Option 3 ID : 4410091226551
Option 4 ID : 4410091226550
Status : Answered
Chosen Option : C

Q.20 In a row of 28 people facing the north, Akshita is sitting 8th from the right end. If Rinki is sitting 4th to the left of Akshita, what is Rinki's position from the left end of the line?

- Ans A. 17th
 B. 15th
 C. 12th
 D. 18th

Question ID : 441009729613
Option 1 ID : 4410092872206
Option 2 ID : 4410092872204
Option 3 ID : 4410092872205
Option 4 ID : 4410092872207
Status : Answered
Chosen Option : B