

BSTET (Class 11-12)

**Previous Year Paper
(Physics)**

16 Nov, 2025 Shift 1



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Exam Name	STET Exam 2025
Paper	Paper II
Roll No	
Participant Name	
Test Center Name	
Test Date	16/11/2025
Test Time	9:00 AM - 11:30 AM

Section : Part I Physics(214)

Q.1 As the temperature of a metallic resistor is increased, the product of its resistivity and conductivity

- Ans ☒ A. increases
☒ B. decreases
☒ C. remains constant
☒ D. may increase or decreases

Question Type : MCQ
 Question ID : 43357610205
 Option 1 ID : 43357640817
 Option 2 ID : 43357640818
 Option 3 ID : 43357640819
 Option 4 ID : 43357640820
 Status : Answered
 Chosen Option : C

Q.2 Two resistors of resistances 2Ω and 4Ω when connected with a battery will have

- Ans ☒ A. same current flowing through them when connected in parallel.
☒ B. same current flowing through them when connected in series.
☒ C. same potential difference across them when connected in series.
☒ D. different potential differences when connected in parallel.

Question Type : MCQ
 Question ID : 43357610193
 Option 1 ID : 43357640769
 Option 2 ID : 43357640770
 Option 3 ID : 43357640771
 Option 4 ID : 43357640772
 Status : Answered
 Chosen Option : B

Q.3 Uhlenbeck and Goudsmit introduced the concept of

- Ans ☒ A. Electron spin
☒ B. Electron charge
☒ C. Proton spin
☒ D. Neutron spin

Question Type : MCQ
 Question ID : 43357610138
 Option 1 ID : 43357640549
 Option 2 ID : 43357640550
 Option 3 ID : 43357640551
 Option 4 ID : 43357640552
 Status : Answered
 Chosen Option : A

Q.4 Consider the following two statements:

- (A) Kirchhoff's junction law follows from conservation of charge.
 (B) Kirchhoff's loop law follows from conservative nature of electric field.

- Ans ☒ A. Both A and B are correct.
☒ B. A is correct but B is wrong.
☒ C. B is correct but A is wrong.
☒ D. Both A and B are wrong.

Question Type : MCQ
 Question ID : 43357610210
 Option 1 ID : 43357640837
 Option 2 ID : 43357640838
 Option 3 ID : 43357640839
 Option 4 ID : 43357640840
 Status : Answered
 Chosen Option : B

Q.5 The potential at a point P due to a charge of 4×10^{-7} C located 9 cm away is ____

- Ans ☒ A. 8×10^4 V
☒ B. 4×10^4 V
☒ C. 36×10^4 V
☒ D. None of these

Question Type : MCQ
 Question ID : 43357610079
 Option 1 ID : 43357640313
 Option 2 ID : 43357640314
 Option 3 ID : 43357640315
 Option 4 ID : 43357640316
 Status : Answered
 Chosen Option : B

Q.6 velocity of plane electro magnetic wave in vacuum is

Ans

☒ A. $C = \sqrt{\frac{\mu_0}{\epsilon_0}}$

☒ B. $\sqrt{\mu_0 \epsilon_0}$

☒ C. $C = \frac{1}{\sqrt{\mu_0 \epsilon_0}}$

☒ D. none of these

Question Type : MCQ

Question ID : 43357610091

Option 1 ID : 43357640361

Option 2 ID : 43357640362

Option 3 ID : 43357640363

Option 4 ID : 43357640364

Status : Answered

Chosen Option : C

Q.7 Sound intensity is directly proportional to of wave amplitude.

Ans ☒ A. square

☒ B. square root

☒ C. cube

☒ D. magnitude

Question Type : MCQ

Question ID : 43357610174

Option 1 ID : 43357640693

Option 2 ID : 43357640694

Option 3 ID : 43357640695

Option 4 ID : 43357640696

Status : Answered

Chosen Option : A

Q.8 Which of the following is correct about Fraunhofer diffraction?

Ans ☒ A. Wavefronts are planar

☒ B. Wavefronts are spherical

☒ C. Wavefronts are cylindrical

☒ D. All of these

Question Type : MCQ

Question ID : 43357610117

Option 1 ID : 43357640465

Option 2 ID : 43357640466

Option 3 ID : 43357640467

Option 4 ID : 43357640468

Status : Answered

Chosen Option : B

Q.9 The correct relation between electric displacement D, electric field E and polarization P is

- Ans ☒ A. $E = \epsilon_0 D + P$
☒ B. $P = \epsilon_0 E + P$
☒ C. $D = \epsilon_0 E + P$
☒ D. $P = E + D$

Question Type : MCQ
 Question ID : 43357610087
 Option 1 ID : 43357640345
 Option 2 ID : 43357640346
 Option 3 ID : 43357640347
 Option 4 ID : 43357640348
 Status : Answered
 Chosen Option : C

Q.10 A rectangular coil of copper wires is rotated in a magnetic field. The direction of induced current changes once in each.

- Ans ☒ A. two revolutions
☒ B. one revolution
☒ C. half revolution
☒ D. one-fourth revolution

Question Type : MCQ
 Question ID : 43357610229
 Option 1 ID : 43357640913
 Option 2 ID : 43357640914
 Option 3 ID : 43357640915
 Option 4 ID : 43357640916
 Status : Answered
 Chosen Option : C

Q.11is used exclusively for the filaments of the bulbs.

- Ans ☒ A. Copper
☒ B. Aluminium
☒ C. Silver
☒ D. Tungsten

Question Type : MCQ
 Question ID : 43357610187
 Option 1 ID : 43357640745
 Option 2 ID : 43357640746
 Option 3 ID : 43357640747
 Option 4 ID : 43357640748
 Status : Answered
 Chosen Option : D

Q.12 (i) When a small amount of pentavalent impurity is added to a pure semiconductor, its known as n-type semiconductor.
(ii) When a small amount of trivalent impurity is added to a Pure semiconductor, it is Called P-type semiconductor.

- Ans ☒ A. Statement (i) is Correct
☒ B. Statement (ii) is Correct
☒ C. both Statement (i) & (ii) are Correct
☒ D. both Statement (i) & (ii) are incorrect

Question Type : MCQ
 Question ID : 43357610134
 Option 1 ID : 43357640533
 Option 2 ID : 43357640534
 Option 3 ID : 43357640535
 Option 4 ID : 43357640536
 Status : Answered
 Chosen Option : C

Q.13 How much does the phase change when a wave is reflected from the boundary of a rod wall -

- Ans ☒ A. 0
☒ B. $\pi/2$
☒ C. $\pi/4$
☒ D. π

Question Type : MCQ
 Question ID : 43357610071
 Option 1 ID : 43357640281
 Option 2 ID : 43357640282
 Option 3 ID : 43357640283
 Option 4 ID : 43357640284
 Status : Answered
 Chosen Option : B

Q.14 Kirchhoff's current law states that the sum of currents entering a junction equals the sum of current

- Ans ☒ A. exiting through the junction
☒ B. flowing through the resistors
☒ C. circulating in the loop
☒ D. flowing through the capacitors

Question Type : MCQ
 Question ID : 43357610103
 Option 1 ID : 43357640409
 Option 2 ID : 43357640410
 Option 3 ID : 43357640411
 Option 4 ID : 43357640412
 Status : Answered
 Chosen Option : A

Q.15 The variation of magnetic flux with time in a closed circuit of resistance 10 ohm, in usual notations, is given by, $\phi = 6t^2 - t + 5$. The induced current in the circuit at $t = 0.25$ sec is

- Ans ☒ A. 0.6 A
☒ B. 0.2 A
☒ C. 0.8 A
☒ D. 1.2 A

Question Type : MCQ
 Question ID : 43357610104
 Option 1 ID : 43357640413
 Option 2 ID : 43357640414
 Option 3 ID : 43357640415
 Option 4 ID : 43357640416
 Status : Answered
 Chosen Option : B

Q.16 The scalar product of two vectors $a = (3\hat{i} - 4\hat{j} + 5\hat{k})$ and $b = (-2\hat{i} + \hat{j} - 3\hat{k})$ is _____

- Ans ☒ A. $(7\hat{i} - \hat{j} - 5\hat{k})$
☒ B. 25
☒ C. -25
☒ D. None of these

Question Type : MCQ
 Question ID : 43357610040
 Option 1 ID : 43357640157
 Option 2 ID : 43357640158
 Option 3 ID : 43357640159
 Option 4 ID : 43357640160
 Status : Answered
 Chosen Option : C

Q.17 A contact angle greater than 90° indicates that the liquid -

- Ans ☒ A. strongly wets the solid surface
☒ B. does not wet the solid surface well
☒ C. forms a perfect sphere on the solid surface
☒ D. spreads evenly on the solid surface

Question Type : MCQ
 Question ID : 43357610053
 Option 1 ID : 43357640209
 Option 2 ID : 43357640210
 Option 3 ID : 43357640211
 Option 4 ID : 43357640212
 Status : Answered
 Chosen Option : B

Q.18 An Electric current can be produced in a closed loop

- Ans ☒ A. by connecting it to battery, but not by moving a magnet near it
- ☒ B. by moving a magnet near it, but not by connecting it to a battery
- ☒ C. by connecting it to a battery, as well as by moving a magnet near it
- ☒ D. neither by connecting it to a battery nor by moving a magnet near it.

Question Type : MCQ
Question ID : 43357610214
Option 1 ID : 43357640853
Option 2 ID : 43357640854
Option 3 ID : 43357640855
Option 4 ID : 43357640856
Status : Answered
Chosen Option : C

Q.19 The temperature of 5 kg of air raised by 1° at constant volume. If $C_p = 999 \text{ J Kg}^{-1}\text{K}^{-1}$ and $\gamma = 5/3$ increase in its internal energy is -

- Ans ☒ A. 2997 J
- ☒ B. 5667 J
- ☒ C. 999J
- ☒ D. None of these

Question Type : MCQ
Question ID : 43357610061
Option 1 ID : 43357640241
Option 2 ID : 43357640242
Option 3 ID : 43357640243
Option 4 ID : 43357640244
Status : Answered
Chosen Option : B

Q.20 The resultant of two simple harmonic motion is done according to the superposition principle -

- Ans ☒ A. $y = y_1 - y_2$
- ☒ B. $y = y_1 + y_2$
- ☒ C. $y = y_{12} + y_{22}$
- ☒ D. $y = y_{12} - y_{22}$

Question Type : MCQ
Question ID : 43357610072
Option 1 ID : 43357640285
Option 2 ID : 43357640286
Option 3 ID : 43357640287
Option 4 ID : 43357640288
Status : Answered
Chosen Option : B

Q.21 How does the angle at which diffraction minima occur change as the wavelength of light is increased

- Ans ☒ A. The angle increases
☒ B. The angle decreases
☒ C. The angle remains the same
☒ D. The angle becomes zero

Question Type : MCQ
 Question ID : 43357610114
 Option 1 ID : 43357640453
 Option 2 ID : 43357640454
 Option 3 ID : 43357640455
 Option 4 ID : 43357640456
 Status : Answered
 Chosen Option : A

Q.22 The reflection coefficient in the wave propagation when it is transmitted with the Brewster angle is

- Ans ☒ A. 0
☒ B. 1
☒ C. -1
☒ D. infinite

Question Type : MCQ
 Question ID : 43357610099
 Option 1 ID : 43357640393
 Option 2 ID : 43357640394
 Option 3 ID : 43357640395
 Option 4 ID : 43357640396
 Status : Answered
 Chosen Option : A

Q.23 The product of resistivity and conductivity of a cylindrical conductor depends on

- Ans ☒ A. temperature
☒ B. material
☒ C. area of cross section
☒ D. none of these.

Question Type : MCQ
 Question ID : 43357610204
 Option 1 ID : 43357640813
 Option 2 ID : 43357640814
 Option 3 ID : 43357640815
 Option 4 ID : 43357640816
 Status : Answered
 Chosen Option : B

Q.24 What is the moment of inertia of a disc about one of its diameters?

- Ans ☒ A. $\frac{MR^2}{2}$
☒ B. $\frac{MR^2}{4}$
☒ C. $\frac{2MR^2}{5}$
☒ D. MR^2

Question Type : MCQ
 Question ID : 43357610041
 Option 1 ID : 43357640161
 Option 2 ID : 43357640162
 Option 3 ID : 43357640163
 Option 4 ID : 43357640164
 Status : Answered
 Chosen Option : A

Q.25 Electric field lines and equipotential lines are-

- Ans ☒ A. always orthogonal
☒ B. Orthogonal only when electric field is uniform
☒ C. orthogonal only when potential does not change
☒ D. None of these

Question Type : MCQ
 Question ID : 43357610084
 Option 1 ID : 43357640333
 Option 2 ID : 43357640334
 Option 3 ID : 43357640335
 Option 4 ID : 43357640336
 Status : Answered
 Chosen Option : B

Q.26 In a transistor

- Ans ☒ A. $I_C = I_E + I_B$
☒ B. $I_B = I_C + I_E$
☒ C. $I_E = I_C + I_B$
☒ D. $I_E = I_C + I_B$

Question Type : MCQ
 Question ID : 43357610139
 Option 1 ID : 43357640553
 Option 2 ID : 43357640554
 Option 3 ID : 43357640555
 Option 4 ID : 43357640556
 Status : Answered
 Chosen Option : A

Q.27 The thermo dynamical relation expressing the change of temperature with value at constant entropy is (where symbols have their usual meaning)

Ans

☒ A. $\left(\frac{dT}{dV}\right)_S = -T \left(\frac{dP}{dQ}\right)_V$

☒ B. $\left(\frac{dT}{dV}\right)_S = T \left(\frac{dP}{dQ}\right)_V$

☒ C. $\left(\frac{dT}{dV}\right)_S = -V \left(\frac{dP}{dQ}\right)_T$

☒ D. none of these

Question Type : MCQ

Question ID : 43357610064

Option 1 ID : 43357640253

Option 2 ID : 43357640254

Option 3 ID : 43357640255

Option 4 ID : 43357640256

Status : Answered

Chosen Option : A

Q.28 In amplitude modulation, the bandwidth is

Ans ☒ A. equal to the signal frequency

☒ B. twice the signal frequency

☒ C. thrice the signal frequency

☒ D. four times the signal frequency

Question Type : MCQ

Question ID : 43357610154

Option 1 ID : 43357640613

Option 2 ID : 43357640614

Option 3 ID : 43357640615

Option 4 ID : 43357640616

Status : Answered

Chosen Option : A

Q.29 Bernoulli's theorem deals with the principles of:

Ans ☒ A. Energy

☒ B. Force

☒ C. Mass

☒ D. Momentum

Question Type : MCQ

Question ID : 43357610160

Option 1 ID : 43357640637

Option 2 ID : 43357640638

Option 3 ID : 43357640639

Option 4 ID : 43357640640

Status : Answered

Chosen Option : A

Q.30 A strong magnetic field B is applied to a stationary electron, then the electron will

- Ans ☒ A. move in the direction of B
- ☒ B. move in the opposite direction of B
- ☒ C. remain stationary
- ☒ D. move perpendicular to B

Question Type : MCQ
 Question ID : 43357610090
 Option 1 ID : 43357640357
 Option 2 ID : 43357640358
 Option 3 ID : 43357640359
 Option 4 ID : 43357640360
 Status : Answered
 Chosen Option : C

Q.31 The work done on a unit positive charge in bringing it from infinity to any point is called

- Ans ☒ A. intensity at that point
- ☒ B. electric potential at that point
- ☒ C. electric potential at that infinity
- ☒ D. electric intensity at infinity

Question Type : MCQ
 Question ID : 43357610088
 Option 1 ID : 43357640349
 Option 2 ID : 43357640350
 Option 3 ID : 43357640351
 Option 4 ID : 43357640352
 Status : Answered
 Chosen Option : B

Q.32 The resistivity does not change if

- Ans ☒ A. the material is changed
- ☒ B. the temperature is changed
- ☒ C. the shape of the resistor is changed
- ☒ D. both material and temperature are changed

Question Type : MCQ
 Question ID : 43357610184
 Option 1 ID : 43357640733
 Option 2 ID : 43357640734
 Option 3 ID : 43357640735
 Option 4 ID : 43357640736
 Status : Answered
 Chosen Option : C

Q.33 If white light is used in Young's double slit experiment, then the central fringe will be

- Ans ☒ A. Red
☒ B. Coloured
☒ C. White
☒ D. Blue

Question Type : MCQ
 Question ID : 43357610129
 Option 1 ID : 43357640513
 Option 2 ID : 43357640514
 Option 3 ID : 43357640515
 Option 4 ID : 43357640516
 Status : Answered
 Chosen Option : C

Q.34 Which of the following is not associated with Fleming's right-hand rule?

- Ans ☒ A. Magnetic field
☒ B. Movement
☒ C. Resistance
☒ D. Induced current

Question Type : MCQ
 Question ID : 43357610221
 Option 1 ID : 43357640881
 Option 2 ID : 43357640882
 Option 3 ID : 43357640883
 Option 4 ID : 43357640884
 Status : Answered
 Chosen Option : C

Q.35 (i) The maxwell's electromagnetic wave are purely transvers and never longitudinal
 (ii) plane electromagnetic waves follow the law of reflection just like light radiations.
 Correct option is

- Ans ☒ A. only statemet (ii) is correct
☒ B. only statement (ii) is correct
☒ C. statement (i) & (ii) both are correct
☒ D. statement (i) & (ii) both are incorrect

Question Type : MCQ
 Question ID : 43357610092
 Option 1 ID : 43357640365
 Option 2 ID : 43357640366
 Option 3 ID : 43357640367
 Option 4 ID : 43357640368
 Status : Answered
 Chosen Option : A

Q.36 Magnetic field lines

- Ans ☒ A. have one direction at a point
☒ B. have no physical reality
☒ C. can be used to indicate the direction of the magnetic field of a point
☒ D. all of these

Question Type : MCQ
 Question ID : 43357610216
 Option 1 ID : 43357640861
 Option 2 ID : 43357640862
 Option 3 ID : 43357640863
 Option 4 ID : 43357640864
 Status : Answered
 Chosen Option : D

Q.37 The value of magnetic field at a distance of 2 cm from a very long straight wire carrying a current of 5 A?

- Ans ☒ A. $5 \times 10^{-5} \text{ T}$
☒ B. $10 \times 10^{-5} \text{ T}$
☒ C. $5 \times 10^{-4} \text{ T}$
☒ D. $15 \times 10^{-6} \text{ T}$

Question Type : MCQ
 Question ID : 43357610175
 Option 1 ID : 43357640697
 Option 2 ID : 43357640698
 Option 3 ID : 43357640699
 Option 4 ID : 43357640700
 Status : Answered
 Chosen Option : A

Q.38 What is the maximum resistance which can be made using five resistors each of $1/5\Omega$?

- Ans ☒ A. $1/5\Omega$
☒ B. 10Ω
☒ C. 5Ω
☒ D. 1Ω

Question Type : MCQ
 Question ID : 43357610194
 Option 1 ID : 43357640773
 Option 2 ID : 43357640774
 Option 3 ID : 43357640775
 Option 4 ID : 43357640776
 Status : Answered
 Chosen Option : D

Q.39 Electric current is measured by

- Ans ☒ A. a voltmeter
- ☒ B. an ammeter
- ☒ C. a potentiometer
- ☒ D. an anemometer

Question Type : MCQ
Question ID : 43357610190
Option 1 ID : 43357640757
Option 2 ID : 43357640758
Option 3 ID : 43357640759
Option 4 ID : 43357640760
Status : Answered
Chosen Option : B

Q.40 In the state of weightlessness, a capillary tube is dipped in water, then water

- Ans ☒ A. Will not rise at all
- ☒ B. Will rise to same height as at atmospheric pressure
- ☒ C. Will rise to less height than at atmospheric pressure
- ☒ D. Will rise up to the upper end of the capillary tube of any length

Question Type : MCQ
Question ID : 43357610165
Option 1 ID : 43357640657
Option 2 ID : 43357640658
Option 3 ID : 43357640659
Option 4 ID : 43357640660
Status : Answered
Chosen Option : A

Q.41 Lez's law helps to determine

- Ans ☒ A. The magnitude of the induced current
- ☒ B. The direction of the induced current
- ☒ C. The speed of the moving magnet
- ☒ D. The energy of the magnatic field

Question Type : MCQ
Question ID : 43357610095
Option 1 ID : 43357640377
Option 2 ID : 43357640378
Option 3 ID : 43357640379
Option 4 ID : 43357640380
Status : Answered
Chosen Option : B

Q.42 Which of the following measures will decrease the strength of the magnetic field of a current carrying solenoid?

- Ans ☒ A. Increase the temperature of the solenoid
- ☒ B. Increase the current
- ☒ C. Increase the number of turns of wire
- ☒ D. All of these

Question Type : MCQ
Question ID : 43357610224
Option 1 ID : 43357640893
Option 2 ID : 43357640894
Option 3 ID : 43357640895
Option 4 ID : 43357640896
Status : Answered
Chosen Option : A

Q.43 A moving charge produces

- Ans ☒ A. electric field only
- ☒ B. magnetic field only
- ☒ C. electric and magnetic field both
- ☒ D. none of them

Question Type : MCQ
Question ID : 43357610232
Option 1 ID : 43357640925
Option 2 ID : 43357640926
Option 3 ID : 43357640927
Option 4 ID : 43357640928
Status : Answered
Chosen Option : A

Q.44 The square of the magnitude of the wave function is called

- Ans ☒ A. current density
- ☒ B. probability density
- ☒ C. zero density
- ☒ D. volume density

Question Type : MCQ
Question ID : 43357610142
Option 1 ID : 43357640565
Option 2 ID : 43357640566
Option 3 ID : 43357640567
Option 4 ID : 43357640568
Status : Answered
Chosen Option : B

Q.45 A copper wire of length 2.2 m and a steel wire of length 1.6 m, both diameter 3.0 mm, are connected end to end. When stretched by a load, the net elongation is found to be 0.70 mm. The value of Applied load is ____

- Ans ☒ A. 4×10^2 N
☒ B. 1.8 N
☒ C. 1.8×10^2 N
☒ D. None of these

Question Type : MCQ
 Question ID : 43357610047
 Option 1 ID : 43357640185
 Option 2 ID : 43357640186
 Option 3 ID : 43357640187
 Option 4 ID : 43357640188
 Status : Answered
 Chosen Option : A

Q.46 Magnetic field lines determine

- Ans ☒ A. only the direction of the field
☒ B. the relative strength of the field
☒ C. both the relative strength and the direction of the field
☒ D. only the shape of the field

Question Type : MCQ
 Question ID : 43357610225
 Option 1 ID : 43357640897
 Option 2 ID : 43357640898
 Option 3 ID : 43357640899
 Option 4 ID : 43357640900
 Status : Answered
 Chosen Option : C

Q.47 Barkhausen criterion for oscillator stability is-

- Ans ☒ A. $A\beta=0$
☒ B. $A = \frac{1}{\beta^2}$
☒ C. $A\beta = 1$
☒ D. $A = \frac{1}{\text{sqrt}(\beta)}$

Question Type : MCQ
 Question ID : 43357610149
 Option 1 ID : 43357640593
 Option 2 ID : 43357640594
 Option 3 ID : 43357640595
 Option 4 ID : 43357640596
 Status : Answered
 Chosen Option : C

Q.48 Which of the following maxwell's equations represents Ampere's law for electricity

- Ans ☒ A. $\nabla \cdot \vec{B} = 0$
- ☒ B. $\nabla \cdot \vec{E} = \frac{\rho}{\epsilon_0}$
- ☒ C. $\nabla \times \vec{E} = \frac{\delta \vec{B}}{\delta t}$
- ☒ D. none of these

Question Type : MCQ
Question ID : 43357610097
Option 1 ID : 43357640385
Option 2 ID : 43357640386
Option 3 ID : 43357640387
Option 4 ID : 43357640388
Status : Answered
Chosen Option : B

Q.49 The Zeroth law of thermodynamics based on which parameter?

- Ans ☒ A. Temperature
- ☒ B. Pressure
- ☒ C. Density
- ☒ D. Velocity

Question Type : MCQ
Question ID : 43357610056
Option 1 ID : 43357640221
Option 2 ID : 43357640222
Option 3 ID : 43357640223
Option 4 ID : 43357640224
Status : Answered
Chosen Option : A

Q.50 Which type of feedback is used in case of an oscillator circuit?

- Ans ☒ A. Positive
- ☒ B. Negative
- ☒ C. Unity
- ☒ D. None of these

Question Type : MCQ
Question ID : 43357610148
Option 1 ID : 43357640589
Option 2 ID : 43357640590
Option 3 ID : 43357640591
Option 4 ID : 43357640592
Status : Answered
Chosen Option : A

Q.51 Stokes' Law is used to determine the

- Ans ☒ A. Viscosity of a fluid
- ☒ B. Terminal velocity of a spherical object in a fluid
- ☒ C. pressure difference across a fluid
- ☒ D. Buoyant force on an object in a fluid

Question Type : MCQ
Question ID : 43357610051
Option 1 ID : 43357640201
Option 2 ID : 43357640202
Option 3 ID : 43357640203
Option 4 ID : 43357640204
Status : Answered
Chosen Option : B

Q.52 An electric current of 3 A flows through a circuit for 20 minutes. What is the amount of charges flowing?

- Ans ☒ A. 60 C
- ☒ B. 1 C
- ☒ C. 3600 C
- ☒ D. None of these.

Question Type : MCQ
Question ID : 43357610201
Option 1 ID : 43357640801
Option 2 ID : 43357640802
Option 3 ID : 43357640803
Option 4 ID : 43357640804
Status : Answered
Chosen Option : B

Q.53 Out of the three bulbs: 25 W, 60 W and 100 W, which bulb has least resistance?

- Ans ☒ A. 25 W bulb
- ☒ B. 60 W bulb
- ☒ C. 100 W bulb
- ☒ D. all bulbs have equal resistances

Question Type : MCQ
Question ID : 43357610196
Option 1 ID : 43357640781
Option 2 ID : 43357640782
Option 3 ID : 43357640783
Option 4 ID : 43357640784
Status : Answered
Chosen Option : D

Q.54 In an electrical circuit two resistors 2Ω and 4Ω respectively are connected in series to a 6 V battery. The heat dissipated by the 4Ω resistor in 5 s will be

- Ans ☒ A. 5 J
☒ B. 10 J
☒ C. 20 J
☒ D. 30 J

Question Type : MCQ
 Question ID : 43357610195
 Option 1 ID : 43357640777
 Option 2 ID : 43357640778
 Option 3 ID : 43357640779
 Option 4 ID : 43357640780
 Status : Answered
 Chosen Option : C

Q.55 The energies of electron liberated by light depend on the of the light

- Ans ☒ A. speed
☒ B. Velocity
☒ C. Frequency
☒ D. Mass

Question Type : MCQ
 Question ID : 43357610122
 Option 1 ID : 43357640485
 Option 2 ID : 43357640486
 Option 3 ID : 43357640487
 Option 4 ID : 43357640488
 Status : Answered
 Chosen Option : C

Q.56 An electric fuse is based on

- Ans ☒ A. the heating effect of the current
☒ B. the chemical effect of the current
☒ C. the magnetic effect of the current
☒ D. non of these

Question Type : MCQ
 Question ID : 43357610226
 Option 1 ID : 43357640901
 Option 2 ID : 43357640902
 Option 3 ID : 43357640903
 Option 4 ID : 43357640904
 Status : Answered
 Chosen Option : A

Q.57 A magnetic field can exert force on a

- Ans ☒ A. moving magnet
☒ B. stationary magnet
☒ C. moving charge
☒ D. all of these

Question Type : MCQ
 Question ID : 43357610220
 Option 1 ID : 43357640877
 Option 2 ID : 43357640878
 Option 3 ID : 43357640879
 Option 4 ID : 43357640880
 Status : Answered
 Chosen Option : D

Q.58 If the diameter of a capillary tube is doubled, then the height of the liquid that will rise is

- Ans ☒ A. Double
☒ B. Half
☒ C. Same as earlier
☒ D. Quarter

Question Type : MCQ
 Question ID : 43357610166
 Option 1 ID : 43357640661
 Option 2 ID : 43357640662
 Option 3 ID : 43357640663
 Option 4 ID : 43357640664
 Status : Answered
 Chosen Option : B

Q.59 The directions of the propagation vector k and the Poynting vector S for an electromagnetic wave are

- Ans ☒ A. parallel to each other
☒ B. anti-parallel to each-other
☒ C. normal to each other
☒ D. any other angle

Question Type : MCQ
 Question ID : 43357610098
 Option 1 ID : 43357640389
 Option 2 ID : 43357640390
 Option 3 ID : 43357640391
 Option 4 ID : 43357640392
 Status : Answered
 Chosen Option : A

Q.60 For an amplitude modulated wave, the maximum amplitude is found to be 10 V while the minimum amplitude is found to be 2 V. What is the value of modulation index m ?

- Ans ☒ A. $1/5$
☒ B. $2/3$
☒ C. 1
☒ D. $1/2$

Question Type : MCQ
 Question ID : 43357610156
 Option 1 ID : 43357640621
 Option 2 ID : 43357640622
 Option 3 ID : 43357640623
 Option 4 ID : 43357640624
 Status : Answered
 Chosen Option : B

Q.61 The net resistance of a voltmeter should be large to ensure that

- Ans ☒ A. it does not get overheated
☒ B. the readings fall within the scale
☒ C. it can measure large potential differences
☒ D. it does not appreciably change the potential difference to be measured.

Question Type : MCQ
 Question ID : 43357610212
 Option 1 ID : 43357640845
 Option 2 ID : 43357640846
 Option 3 ID : 43357640847
 Option 4 ID : 43357640848
 Status : Answered
 Chosen Option : C

Q.62 An electric dipole is placed in a uniform electric field, its potential energy will be minimum when the angle between its axis and field is:

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

Question Type : MCQ
 Question ID : 43357610082
 Option 1 ID : 43357640325
 Option 2 ID : 43357640326
 Option 3 ID : 43357640327
 Option 4 ID : 43357640328
 Status : Answered
 Chosen Option : D

Q.63 A battery of 6 V and internal resistance of 0.5 ohm is joined in parallel with another battery of 10 V and internal resistance 10 ohm. The combination send a current through an external resistance of 12 ohm . If I_1 and I_2 be the currents given by two batteries , then the current through each Battery is ? or $I_1 = ?$ and $I_2 = ?$

Ans ☒ A. $I_1 = -2.27A$, $I_2 = 2.865A$

☐ B. $I_1 = 2.865A$ $I_2 = 2.27A$

☐ C. $I_1 = 6A$, $I_2 = 10A$

☐ D. None of these.

Question Type : MCQ

Question ID : 43357610183

Option 1 ID : 43357640729

Option 2 ID : 43357640730

Option 3 ID : 43357640731

Option 4 ID : 43357640732

Status : Answered

Chosen Option : B

Q.64 Which gate is known as the universal logic gate?

Ans ☐ A. NAND

☐ B. OR

☐ C. AND

☒ D. None of these

Question Type : MCQ

Question ID : 43357610151

Option 1 ID : 43357640601

Option 2 ID : 43357640602

Option 3 ID : 43357640603

Option 4 ID : 43357640604

Status : Answered

Chosen Option : A

Q.65 A resistor of resistance R is connected to an ideal battery. If the value of R is decreased, the power dissipated in the resistor will

Ans ☒ A. increase

☐ B. decrease

☐ C. remain unchanged

☐ D. decrease then remain unchanged

Question Type : MCQ

Question ID : 43357610207

Option 1 ID : 43357640825

Option 2 ID : 43357640826

Option 3 ID : 43357640827

Option 4 ID : 43357640828

Status : Answered

Chosen Option : B

Q.66 A magnetic material of susceptibility 3×10^{-4} , and magnetic intensity is $4 \times 10^{-4} \text{ Am}^{-1}$.
Then the magnetization in unit of Am^{-1} is

- Ans ☒ A. 12×10^{-8}
☒ B. 0.75×10^{-8}
☒ C. 1.33×10^{-8}
☒ D. 14×10^{-8}

Question Type : MCQ
 Question ID : 43357610177
 Option 1 ID : 43357640705
 Option 2 ID : 43357640706
 Option 3 ID : 43357640707
 Option 4 ID : 43357640708
 Status : Answered
 Chosen Option : A

Q.67 When a Pure Semiconductor is heat, is resistance

- Ans ☒ A. Goes up
☒ B. Goes down
☒ C. Remains the same
☒ D. Cannot Say

Question Type : MCQ
 Question ID : 43357610135
 Option 1 ID : 43357640537
 Option 2 ID : 43357640538
 Option 3 ID : 43357640539
 Option 4 ID : 43357640540
 Status : Answered
 Chosen Option : B

Q.68 Two resistors R and 2R are connected in series in an electric circuit. The thermal energy developed in R and 2R are in the ratio.

- Ans ☒ A. 1:2
☒ B. 2:1
☒ C. 1:4
☒ D. 4:1

Question Type : MCQ
 Question ID : 43357610208
 Option 1 ID : 43357640829
 Option 2 ID : 43357640830
 Option 3 ID : 43357640831
 Option 4 ID : 43357640832
 Status : Answered
 Chosen Option : A

Q.69 If the time period of a satellite moving near the Earth surface is T and the time period of a simple pendulum of infinite is T' , then

- Ans ☒ A. $T=T'$
☒ B. $T>T'$
☒ C. $T<T'$
☒ D. None of these

Question Type : MCQ
 Question ID : 43357610157
 Option 1 ID : 43357640625
 Option 2 ID : 43357640626
 Option 3 ID : 43357640627
 Option 4 ID : 43357640628
 Status : Answered
 Chosen Option : B

Q.70 The relative permeability of a medium is 0.075. What is the magnetic susceptibility?

- Ans ☒ A. 0.92500000000000004
☒ B. -0.925
☒ C. 1.075
☒ D. -1.075

Question Type : MCQ
 Question ID : 43357610176
 Option 1 ID : 43357640701
 Option 2 ID : 43357640702
 Option 3 ID : 43357640703
 Option 4 ID : 43357640704
 Status : Answered
 Chosen Option : A

Q.71 Electromagnetic wave is

- Ans ☒ A. Transverse
☒ B. Longitudinal
☒ C. Both longitudinal or transverse
☒ D. None of them

Question Type : MCQ
 Question ID : 43357610106
 Option 1 ID : 43357640421
 Option 2 ID : 43357640422
 Option 3 ID : 43357640423
 Option 4 ID : 43357640424
 Status : Answered
 Chosen Option : C

Q.72 The property of a circuit that converts electrical energy into heat is called

Ans ☒ A. electromotive force

☒ B. current

☒ C. voltage

☒ D. resistance

Question Type : MCQ

Question ID : 43357610108

Option 1 ID : 43357640429

Option 2 ID : 43357640430

Option 3 ID : 43357640431

Option 4 ID : 43357640432

Status : Answered

Chosen Option : B

Q.73 Through which mode of propagation, the radio waves can be sent from one place to another-

Ans ☒ A. Ground wave propagation

☒ B. Sky wave propagation

☒ C. Space Wave propagation

☒ D. All of the above

Question Type : MCQ

Question ID : 43357610155

Option 1 ID : 43357640617

Option 2 ID : 43357640618

Option 3 ID : 43357640619

Option 4 ID : 43357640620

Status : Answered

Chosen Option : C

Q.74 A 2 kg block is placed on a horizontal plane which has unknown friction co-efficient, μ . When a force of 10 N is applied at 60 degree below horizontal, the block is on the verge of sliding. Then

Ans ☒ A. the co-efficient of friction μ is $(4-\sqrt{3}/13)$

☒ B. The normal contact force is $5\sqrt{3}$ N

☒ C. The force of friction is less than 5 N

☒ D. None of these

Question Type : MCQ

Question ID : 43357610045

Option 1 ID : 43357640177

Option 2 ID : 43357640178

Option 3 ID : 43357640179

Option 4 ID : 43357640180

Status : Answered

Chosen Option : C

Q.75 Which of the following is found using Lenz's law?

- Ans ☒ A. Induced emf
☒ B. Induced current
☒ C. The direction of induced emf
☒ D. The direction of alternating current

Question Type : MCQ
 Question ID : 43357610178
 Option 1 ID : 43357640709
 Option 2 ID : 43357640710
 Option 3 ID : 43357640711
 Option 4 ID : 43357640712
 Status : Answered
 Chosen Option : C

Q.76 The binary number 10101 is equivalent to decimal number _____

- Ans ☒ A. 19
☒ B. 12
☒ C. 27
☒ D. 21

Question Type : MCQ
 Question ID : 43357610140
 Option 1 ID : 43357640557
 Option 2 ID : 43357640558
 Option 3 ID : 43357640559
 Option 4 ID : 43357640560
 Status : Answered
 Chosen Option : D

Q.77 Melting point of Ethanol is _____

- Ans ☒ A. -114° C
☒ B. 0° C
☒ C. 1063° C
☒ D. -29° C

Question Type : MCQ
 Question ID : 43357610055
 Option 1 ID : 43357640217
 Option 2 ID : 43357640218
 Option 3 ID : 43357640219
 Option 4 ID : 43357640220
 Status : Answered
 Chosen Option : C

Q.78 Huygens' wave theory of light cannot explain

- Ans ☒ A. Diffraction phenomena
☒ B. Interference phenomena
☒ C. Photoelectric effect
☒ D. Polarization of light

Question Type : MCQ
 Question ID : 43357610125
 Option 1 ID : 43357640497
 Option 2 ID : 43357640498
 Option 3 ID : 43357640499
 Option 4 ID : 43357640500
 Status : Answered
 Chosen Option : C

Q.79 In a Young's double slit experiment let S_1 and S_2 be the two slits and C be the center of the screen If $\angle S_1CS_2 = \theta$ and λ is the wave length of light, the fringe width will be-

- Ans ☒ A. λ/θ
☒ B. $\lambda\theta$
☒ C. $2\lambda/\theta$
☒ D. $\theta/2\lambda$

Question Type : MCQ
 Question ID : 43357610120
 Option 1 ID : 43357640477
 Option 2 ID : 43357640478
 Option 3 ID : 43357640479
 Option 4 ID : 43357640480
 Status : Answered
 Chosen Option : D

Q.80 In a LCR circuit the sharpness of resonance curve ____

- Ans ☒ A. Decreases with the increase of the inductance L
☒ B. Decreases with the decrease of the capacitance C
☒ C. does not depend upon the values of L, C, R
☒ D. Decreases with the increase of the resistance R

Question Type : MCQ
 Question ID : 43357610075
 Option 1 ID : 43357640297
 Option 2 ID : 43357640298
 Option 3 ID : 43357640299
 Option 4 ID : 43357640300
 Status : Answered
 Chosen Option : A

Q.81 Which of the following occurs without a change in the internal energy?

- Ans ☒ A. Isochoric process
☒ B. Isobaric process
☒ C. Steady-state process
☒ D. Isothermal process

Question Type : MCQ
 Question ID : 43357610058
 Option 1 ID : 43357640229
 Option 2 ID : 43357640230
 Option 3 ID : 43357640231
 Option 4 ID : 43357640232
 Status : Answered
 Chosen Option : B

Q.82 If radius of a capillary tube is increased by 5%, then the rate of flow of liquid will change nearly by:

- Ans ☒ A. +5%
☒ B. -5%
☒ C. +21.55%
☒ D. -20%

Question Type : MCQ
 Question ID : 43357610161
 Option 1 ID : 43357640641
 Option 2 ID : 43357640642
 Option 3 ID : 43357640643
 Option 4 ID : 43357640644
 Status : Answered
 Chosen Option : D

Q.83 Fibre optics cable used in communication works on the principle of

- Ans ☒ A. regular reflection of light
☒ B. diffuse reflection of light
☒ C. refraction of light
☒ D. total internal reflection of light

Question Type : MCQ
 Question ID : 43357610100
 Option 1 ID : 43357640397
 Option 2 ID : 43357640398
 Option 3 ID : 43357640399
 Option 4 ID : 43357640400
 Status : Answered
 Chosen Option : D

Q.84 In a balanced see-saw, the moment of force on either side of the pivot point are

- Ans ☒ A. Equal in magnitude but opposite in direction
☒ B. Equal in direction but opposite in magnitude
☒ C. Different in magnitude and direction
☒ D. None of these

Question Type : MCQ
 Question ID : 43357610043
 Option 1 ID : 43357640169
 Option 2 ID : 43357640170
 Option 3 ID : 43357640171
 Option 4 ID : 43357640172
 Status : Answered
 Chosen Option : A

Q.85 Two thin lenses of power +12 and -2 diopters are placed in contact the focal length of the combination is -

- Ans ☒ A. 8.33 Cm
☒ B. 10.00 Cm
☒ C. 12.50 Cm
☒ D. None of these

Question Type : MCQ
 Question ID : 43357610121
 Option 1 ID : 43357640481
 Option 2 ID : 43357640482
 Option 3 ID : 43357640483
 Option 4 ID : 43357640484
 Status : Answered
 Chosen Option : B

Q.86 When is a fluid called turbulent?

- Ans ☒ A. High viscosity of fluid
☒ B. Reynolds number is greater than 4000
☒ C. Reynolds number is less than 2000
☒ D. The density of the fluid is low

Question Type : MCQ
 Question ID : 43357610162
 Option 1 ID : 43357640645
 Option 2 ID : 43357640646
 Option 3 ID : 43357640647
 Option 4 ID : 43357640648
 Status : Answered
 Chosen Option : B

Q.87 The gyromagnetic ratio for electron spin is

- Ans ☒ A. 1/2
☒ B. 1/3
☒ C. 2
☒ D. 3

Question Type : MCQ
 Question ID : 43357610133
 Option 1 ID : 43357640529
 Option 2 ID : 43357640530
 Option 3 ID : 43357640531
 Option 4 ID : 43357640532
 Status : Answered
 Chosen Option : C

Q.88 The magnetic field lines due to a straight wire carrying a current are

- Ans ☒ A. straight
☒ B. circular
☒ C. parabolic
☒ D. elliptical

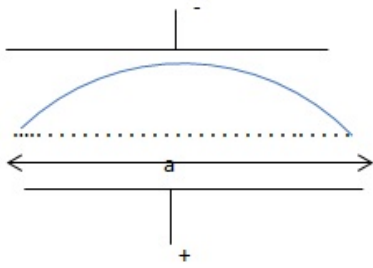
Question Type : MCQ
 Question ID : 43357610218
 Option 1 ID : 43357640869
 Option 2 ID : 43357640870
 Option 3 ID : 43357640871
 Option 4 ID : 43357640872
 Status : Answered
 Chosen Option : C

Q.89 The first law of thermodynamics is may be written in usual symbols as

- Ans ☒ A. $ds = T dQ$
☒ B. $dU = TDS$
☒ C. $dQ = dU + P dV$
☒ D. $dU = dQ + PdV$

Question Type : MCQ
 Question ID : 43357610065
 Option 1 ID : 43357640257
 Option 2 ID : 43357640258
 Option 3 ID : 43357640259
 Option 4 ID : 43357640260
 Status : Answered
 Chosen Option : C

Q.90 The Plates of a parallel plate capacitor are squares of edge 'a' and separated by 'd'. An electron is projected from mid-point at an end and displaces by 'a' without touching the plates, the maximum angle of projection is



- Ans
- ☒ A. $\tan^{-1}\left(\frac{d}{a}\right)$
 - ☒ B. $\tan^{-1}\left(\frac{2d}{a}\right)$
 - ☒ C. $\cot^{-1}\left(\frac{2d}{a}\right)$
 - ☒ D. None of these

Question Type : MCQ
 Question ID : 43357610044
 Option 1 ID : 43357640173
 Option 2 ID : 43357640174
 Option 3 ID : 43357640175
 Option 4 ID : 43357640176
 Status : Answered
 Chosen Option : A

Q.91 Bohr radius for Hydrogen is 0.53 Å. The ground state Bohr radius for He^+ ion will be

- Ans
- ☒ A. 1.06 Å
 - ☒ B. 0.53 Å
 - ☒ C. 0.265 Å
 - ☒ D. 0.134 Å

Question Type : MCQ
 Question ID : 43357610131
 Option 1 ID : 43357640521
 Option 2 ID : 43357640522
 Option 3 ID : 43357640523
 Option 4 ID : 43357640524
 Status : Answered
 Chosen Option : B

Q.92 Lenz's law is a consequence of the law of

- Ans
- ☒ A. conservation of charge
 - ☒ B. conservation of momentum
 - ☒ C. conservation of mass
 - ☒ D. conservation of energy

Question Type : MCQ
 Question ID : 43357610094
 Option 1 ID : 43357640373
 Option 2 ID : 43357640374
 Option 3 ID : 43357640375
 Option 4 ID : 43357640376
 Status : Answered
 Chosen Option : D

Q.93 What do we call the maximum velocity of a fluid in a tube for which the flow remains streamlined?

- Ans ☒ A. Lamellar velocity
☒ B. critical velocity
☒ C. Streamlined velocity
☒ D. Hyper velocity

Question Type : MCQ
 Question ID : 43357610158
 Option 1 ID : 43357640629
 Option 2 ID : 43357640630
 Option 3 ID : 43357640631
 Option 4 ID : 43357640632
 Status : Answered
 Chosen Option : B

Q.94 What is the length of a simple pendulum, which ticks seconds?

- Ans ☒ A. 50 cm
☒ B. 200 cm
☒ C. 100 cm
☒ D. None of these

Question Type : MCQ
 Question ID : 43357610068
 Option 1 ID : 43357640269
 Option 2 ID : 43357640270
 Option 3 ID : 43357640271
 Option 4 ID : 43357640272
 Status : Answered
 Chosen Option : C

Q.95 Parallel currents _____ and anti-parallel current _____.

- Ans ☒ A. Repel, attract
☒ B. Attract, Attract
☒ C. Repel , Repel
☒ D. Attract, Repel

Question Type : MCQ
 Question ID : 43357610081
 Option 1 ID : 43357640321
 Option 2 ID : 43357640322
 Option 3 ID : 43357640323
 Option 4 ID : 43357640324
 Status : Answered
 Chosen Option : D

Q.96 A Uniform plane square sheet of mass m is centered at the origin of an inertial frame.

The sheet is rotating about an axis passing through the origin. At an instant when all its

Vertices lie on x and y axes, the angular momentum is $\vec{L} = I_0 \omega_0 (2\hat{i} + \hat{j} + 2\hat{k})$, where

I_0 , x is the moment of inertia about the x axis. At this instant, the angular velocity of the sheet is

Ans

☐ A. $(2\hat{i} + \hat{j} + 2\hat{k})\omega_0$

☐ B. $(2\hat{i} + \hat{j} + \hat{k})\omega_0$

☐ C. $(2\hat{i} + \hat{j})\omega_0$

☒ D. $(\hat{i} + \hat{j})\omega_0$

Question Type : MCQ

Question ID : 43357610035

Option 1 ID : 43357640137

Option 2 ID : 43357640138

Option 3 ID : 43357640139

Option 4 ID : 43357640140

Status : Answered

Chosen Option : B

Q.97 If α current gain of a transistor is 0.98. What is the value of β current gain of the transistor.....

Ans ☐ A. 0.49

☒ B. 4.9000000000000004

☐ C. 5

☐ D. 49

Question Type : MCQ

Question ID : 43357610146

Option 1 ID : 43357640581

Option 2 ID : 43357640582

Option 3 ID : 43357640583

Option 4 ID : 43357640584

Status : Answered

Chosen Option : D

Q.98 Which of the following factors affects the surface energy of a liquid?

Ans ☒ A. Temperature

☐ B. Pressure

☐ C. Volume

☐ D. Density

Question Type : MCQ

Question ID : 43357610052

Option 1 ID : 43357640205

Option 2 ID : 43357640206

Option 3 ID : 43357640207

Option 4 ID : 43357640208

Status : Answered

Chosen Option : A

Q.99 According to Einstein's explanation of the Photoelectric effect, what is the energy of a photon of light?

- Ans ☒ A. Inversely proportional to the frequency of light
☒ B. Directly proportional to the intensity of light
☒ C. Inversely proportional to the intensity of light
☒ D. Directly proportional to the frequency of light

Question Type : MCQ
 Question ID : 43357610124
 Option 1 ID : 43357640493
 Option 2 ID : 43357640494
 Option 3 ID : 43357640495
 Option 4 ID : 43357640496
 Status : Answered
 Chosen Option : D

Q.10 Which of the following are solutions of one - dimensional wave equation ?

- 0 (i) $y=7x-10t$
 (ii) $y=2\sin x \cos vt$

- Ans ☒ A. only (i)
☒ B. only (ii)
☒ C. Both (i) and (ii)
☒ D. Neither (i) nor (ii)

Question Type : MCQ
 Question ID : 43357610070
 Option 1 ID : 43357640277
 Option 2 ID : 43357640278
 Option 3 ID : 43357640279
 Option 4 ID : 43357640280
 Status : Answered
 Chosen Option : C

Section : Part II

Q.10 Curriculum is:

1

- Ans ☒ A. Course
☒ B. Syllabus
☒ C. Co-curricular activities
☒ D. Overall activities of an institution

Question Type : MCQ
 Question ID : 4335764185
 Option 1 ID : 43357616737
 Option 2 ID : 43357616738
 Option 3 ID : 43357616739
 Option 4 ID : 43357616740
 Status : Answered
 Chosen Option : D

Q.10 Activity involves
2

- Ans ☒ A. Physical action
☒ B. Social action
☒ C. Mental action
☒ D. Physical , social and mental action

Question Type : MCQ
Question ID : 4335763656
Option 1 ID : 43357614621
Option 2 ID : 43357614622
Option 3 ID : 43357614623
Option 4 ID : 43357614624
Status : Answered
Chosen Option : D

Q.10 The method of teaching at reflective level is
3

- Ans ☒ A. teacher centered
☒ B. learner centered
☒ C. problem-solving centered
☒ D. subject centered

Question Type : MCQ
Question ID : 4335763407
Option 1 ID : 43357613625
Option 2 ID : 43357613626
Option 3 ID : 43357613627
Option 4 ID : 43357613628
Status : Answered
Chosen Option : C

Q.10 Knowledge of internet
4

- Ans ☒ A. is harmful for the students
☒ B. is beneficial for the students
☒ C. makes students dependable and they lose their own ability
☒ D. is not at all beneficial for the students

Question Type : MCQ
Question ID : 4335764031
Option 1 ID : 43357616121
Option 2 ID : 43357616122
Option 3 ID : 43357616123
Option 4 ID : 43357616124
Status : Answered
Chosen Option : B

Q.10 Student-Centric Classroom is mean for _____
5

- Ans ☒ A. Addressing individual differences
☒ B. Reducing teacher-oriented lectures
☒ C. Recalling the previous knowledge
☒ D. Engaging the entire class

Question Type : MCQ
Question ID : 4335763867
Option 1 ID : 43357615465
Option 2 ID : 43357615466
Option 3 ID : 43357615467
Option 4 ID : 43357615468
Status : Answered
Chosen Option : D

Q.10 For guiding children, the teacher can play an important role provided he has the right
6 attitude as a teacher towards

- Ans ☒ A. his/her colleagues
☒ B. his/her pupils
☒ C. the society
☒ D. the school

Question Type : MCQ
Question ID : 4335763967
Option 1 ID : 43357615865
Option 2 ID : 43357615866
Option 3 ID : 43357615867
Option 4 ID : 43357615868
Status : Answered
Chosen Option : B

Q.10 The speciality of the Indian model of micro teaching is not –
7

- Ans ☒ A. Immediately after the completion of the micro lesson, feedback is given to the teacher by fellow students.
☒ B. Audio cassettes and video films are used during the micro teaching process.
☒ C. Simulated classroom is used in micro teaching process.
☒ D. During micro teaching, the student teacher plays the role of teacher, student and supervisor.

Question Type : MCQ
Question ID : 4335763773
Option 1 ID : 43357615089
Option 2 ID : 43357615090
Option 3 ID : 43357615091
Option 4 ID : 43357615092
Status : Answered
Chosen Option : B

Q.10 Which of the following are the factors related to learning that affect learning?

- 8 (i). Learner's level of motivation to aspire and achievement
(ii). readiness and will power of the learner
(iii). Basic competence of the learner
(iv). Physical and mental health of the learner
(v). Personality characteristics and behaviour of the teacher

Ans ☒ A. (i), (ii), (v) only
☒ B. (i), (ii), (iii) and (iv) only
☒ C. Only (iii) and (v)
☒ D. Only (iii), (iv) and (v)

Question Type : MCQ
Question ID : 4335764338
Option 1 ID : 43357617349
Option 2 ID : 43357617350
Option 3 ID : 43357617351
Option 4 ID : 43357617352
Status : Answered
Chosen Option : A

Q.10 Which of the following is not considered approach in teaching tearing process?

9

Ans ☒ A. Conceptual
☒ B. Integrated
☒ C. Autocratic
☒ D. Process

Question Type : MCQ
Question ID : 4335763593
Option 1 ID : 43357614369
Option 2 ID : 43357614370
Option 3 ID : 43357614371
Option 4 ID : 43357614372
Status : Answered
Chosen Option : C

Q.11 Curriculum effectiveness is determined by:

0

Ans ☒ A. Community cooperation
☒ B. Teachers' competence
☒ C. Students' interest
☒ D. Quality of supervision

Question Type : MCQ
Question ID : 4335764229
Option 1 ID : 43357616913
Option 2 ID : 43357616914
Option 3 ID : 43357616915
Option 4 ID : 43357616916
Status : Answered
Chosen Option : C

Q.11 If a student does a visual presentation on an updated version or angle connected to a
1 topic, he or she is

- Ans ☒ A. Comprehending
☒ B. Applying
☒ C. Synthesizing
☒ D. Analyzing

Question Type : MCQ
Question ID : 4335763504
Option 1 ID : 43357614013
Option 2 ID : 43357614014
Option 3 ID : 43357614015
Option 4 ID : 43357614016
Status : Answered
Chosen Option : B

Q.11 Heuristic means
2

- Ans ☒ A. To investigate
☒ B. To show
☒ C. To do
☒ D. To act

Question Type : MCQ
Question ID : 4335763652
Option 1 ID : 43357614605
Option 2 ID : 43357614606
Option 3 ID : 43357614607
Option 4 ID : 43357614608
Status : Answered
Chosen Option : D

Q.11 After selecting a topic, teacher should
3

- Ans ☒ A. rest for a while
☒ B. do the planning of the chapter
☒ C. concentrate on student's evaluation
☒ D. deliver information to students

Question Type : MCQ
Question ID : 4335763418
Option 1 ID : 43357613669
Option 2 ID : 43357613670
Option 3 ID : 43357613671
Option 4 ID : 43357613672
Status : Answered
Chosen Option : B

Q.11 The lowest level of learning in cognitive domain is
4

- Ans ☒ A. Comprehension
☒ B. Application
☒ C. Knowledge
☒ D. Synthesis

Question Type : MCQ
Question ID : 4335763531
Option 1 ID : 43357614121
Option 2 ID : 43357614122
Option 3 ID : 43357614123
Option 4 ID : 43357614124
Status : Answered
Chosen Option : A

Q.11 Which of the following characterizes as well-motivated lesson?
5

- Ans ☒ A. The class is quit
☒ B. The teacher can leave the pupils to attend to some activities
☒ C. Here are varied procedures and activities undertaken by the pupils
☒ D. The children have something to do

Question Type : MCQ
Question ID : 4335763826
Option 1 ID : 43357615301
Option 2 ID : 43357615302
Option 3 ID : 43357615303
Option 4 ID : 43357615304
Status : Answered
Chosen Option : C

Q.11 Learning may be:
6

- Ans ☒ A. Formal
☒ B. Informal
☒ C. Formal & Informal
☒ D. None of these

Question Type : MCQ
Question ID : 4335764242
Option 1 ID : 43357616965
Option 2 ID : 43357616966
Option 3 ID : 43357616967
Option 4 ID : 43357616968
Status : Answered
Chosen Option : C

Q.11 The objective of audio-visual aids in teaching is
7

- Ans ☒ A. to develop interest in learning process
☒ B. to improve student's comprehension
☒ C. To promote greater students participation
☒ D. All of these

Question Type : MCQ
 Question ID : 4335764013
 Option 1 ID : 43357616049
 Option 2 ID : 43357616050
 Option 3 ID : 43357616051
 Option 4 ID : 43357616052
 Status : Answered
 Chosen Option : D

Q.11 If the teacher opening sentence is interesting then students will
8

- Ans ☒ A. Rude
☒ B. Attentive
☒ C. In Attitude
☒ D. None of these

Question Type : MCQ
 Question ID : 4335763838
 Option 1 ID : 43357615349
 Option 2 ID : 43357615350
 Option 3 ID : 43357615351
 Option 4 ID : 43357615352
 Status : Answered
 Chosen Option : B

Q.11 The aim of micro-teaching is
9

- Ans ☒ A. to create simulated situations
☒ B. to strengthen educational institutions
☒ C. to modify student behavior
☒ D. to modify teacher behaviour

Question Type : MCQ
 Question ID : 4335763750
 Option 1 ID : 43357614997
 Option 2 ID : 43357614998
 Option 3 ID : 43357614999
 Option 4 ID : 43357615000
 Status : Answered
 Chosen Option : A

Q.12 The credit for starting research work on micro teaching model in India goes to –
0

- Ans ☒ A. Institute of Higher Education (IASE) Ajmer
☒ B. Institute of Higher Education (IASE) Baroda
☒ C. Institute of Higher Education (IASE) Shimla
☒ D. Institute of Higher Education (IASE) Pune

Question Type : MCQ
 Question ID : 4335763771
 Option 1 ID : 43357615081
 Option 2 ID : 43357615082
 Option 3 ID : 43357615083
 Option 4 ID : 43357615084
 Status : Answered
 Chosen Option : D

Q.12 Which one of the following is true in project based teaching?
1

- Ans ☒ A. Load on the teacher is very high
☒ B. Load on the teacher is very low
☒ C. Load on the teacher is moderate
☒ D. No load at all

Question Type : MCQ
 Question ID : 4335764029
 Option 1 ID : 43357616113
 Option 2 ID : 43357616114
 Option 3 ID : 43357616115
 Option 4 ID : 43357616116
 Status : Answered
 Chosen Option : A

Q.12 Which one of the following is the meaning of learning?
2

- Ans ☒ A. Achieving perfection or specialization
☒ B. Attainment of knowledge
☒ C. enlightenment
☒ D. moulding behaviour

Question Type : MCQ
 Question ID : 4335764000
 Option 1 ID : 43357615997
 Option 2 ID : 43357615998
 Option 3 ID : 43357615999
 Option 4 ID : 43357616000
 Status : Answered
 Chosen Option : B

Q.12 Supervision should be primarily
3

- Ans ☒ A. Privative and critical
☒ B. Preventive and corrective
☒ C. Constructive and creative
☒ D. Construction and critical

Question Type : MCQ
Question ID : 4335763878
Option 1 ID : 43357615509
Option 2 ID : 43357615510
Option 3 ID : 43357615511
Option 4 ID : 43357615512
Status : Answered
Chosen Option : C

Q.12 The right sequence of sub-groups of psychomotor domain is
4

- Ans ☒ A. Perception, Set, Guided response, Mechanism, Complex overt response, adaptation, Origination
☒ B. Perception, Complex overt response, Set, Guided response, Mechanism, adaptation, Organization
☒ C. Set, Origination, Guided response, Mechanism Complex overt response, Adaptation, perception
☒ D. Guided response, Mechanism, perception, Set, Adaptation, Organization, Complex overt response

Question Type : MCQ
Question ID : 4335763557
Option 1 ID : 43357614225
Option 2 ID : 43357614226
Option 3 ID : 43357614227
Option 4 ID : 43357614228
Status : Answered
Chosen Option : A

Q.12 Which of them is an advantage of formative evaluation?
5

- Ans ☒ A. Provides a comprehensive view of students' performance
☒ B. Guides instructional decisions and interventions
☒ C. Allows for comparison among students
☒ D. Measures long-term retention of knowledge

Question Type : MCQ
Question ID : 4335764125
Option 1 ID : 43357616497
Option 2 ID : 43357616498
Option 3 ID : 43357616499
Option 4 ID : 43357616500
Status : Answered
Chosen Option : A

Q.12 _____ undertook the innovative project 'Lok Jumbish People's movement for
6 Education for All'?

- Ans ☒ A. Bihar
☒ B. Madhya Pradesh
☒ C. Rajasthan
☒ D. Uttar Pradesh

Question Type : MCQ
Question ID : 4335764325
Option 1 ID : 43357617297
Option 2 ID : 43357617298
Option 3 ID : 43357617299
Option 4 ID : 43357617300
Status : Answered
Chosen Option : A

Q.12 The main purpose of the evaluation is to make:
7

- Ans ☒ A. Judgment
☒ B. Opinion
☒ C. Prediction
☒ D. Decision

Question Type : MCQ
Question ID : 4335764143
Option 1 ID : 43357616569
Option 2 ID : 43357616570
Option 3 ID : 43357616571
Option 4 ID : 43357616572
Status : Answered
Chosen Option : D

Q.12 In permissive style of teaching strategy,
8

- Ans ☒ A. only teachers remain active in teaching
☒ B. only students remain active in teaching
☒ C. Both [a] and [b]
☒ D. None of the above

Question Type : MCQ
Question ID : 4335763590
Option 1 ID : 43357614357
Option 2 ID : 43357614358
Option 3 ID : 43357614359
Option 4 ID : 43357614360
Status : Answered
Chosen Option : C

Q.12 The purpose of the evaluation is to make a judgment about educational...

9

- Ans ☒ A. Quantity
- ☒ B. Quality
- ☒ C. Time Period
- ☒ D. Age

Question Type : MCQ
Question ID : 4335764060
Option 1 ID : 43357616237
Option 2 ID : 43357616238
Option 3 ID : 43357616239
Option 4 ID : 43357616240
Status : Answered
Chosen Option : B

Q.13 Which of the following statement is true of an effective teacher?

0

- Ans ☒ A. He must be biased and try to influence the learners in accordance with his personal views
- ☒ B. His education is completed when he is certified to teach
- ☒ C. He should not take into consideration the interests, abilities and limitations of the learner
- ☒ D. He should understand human developmental patterns

Question Type : MCQ
Question ID : 4335763399
Option 1 ID : 43357613593
Option 2 ID : 43357613594
Option 3 ID : 43357613595
Option 4 ID : 43357613596
Status : Answered
Chosen Option : D

Section : Part III

Q.13 Which one of the following in not correct about the Indian Independence Act, 1947?

1

- Ans ☒ A. The Bill for the Indian Independence Act was introduced in Parliament on July 4 and received the Royal Assent on July 18, 1947.
- ☒ B. Act of 1947 laid down the basic framework of the Indian Constitution.
- ☒ C. The Act provided for the establishment of two independent Dominions to be known as India and Pakistan.
- ☒ D. The Act empowered the Constituent Assembly of each Dominion to have unlimited power to frame and adopt any constitution.

Question Type : MCQ
Question ID : 4335764445
Option 1 ID : 43357617777
Option 2 ID : 43357617778
Option 3 ID : 43357617779
Option 4 ID : 43357617780
Status : Answered
Chosen Option : C

Q.13 Bay of pigs' is associated with which crisis during the cold war ?

2

Ans ☒ A. Cuban Missile

☐ B. Hungary

☐ C. Korea

☐ D. Suez Canal

Question Type : MCQ

Question ID : 4335764482

Option 1 ID : 43357617925

Option 2 ID : 43357617926

Option 3 ID : 43357617927

Option 4 ID : 43357617928

Status : Answered

Chosen Option : B

Q.13 Gopal pointed to Govinda and said, His father is the only son of my father. How is

3 Govinda related to Gopal?

Ans ☐ A. Brother

☒ B. Son

☐ C. Grand Father

☐ D. Grand son

Question Type : MCQ

Question ID : 4335764886

Option 1 ID : 43357619541

Option 2 ID : 43357619542

Option 3 ID : 43357619543

Option 4 ID : 43357619544

Status : Answered

Chosen Option : B

Q.13 Which of the following chemicals is responsible for ozone layer depletion?

4

Ans ☐ A. Methanol

☐ B. Bi polymer

☐ C. Polyvinyl Chloride

☒ D. Chlorofluorocarbons

Question Type : MCQ

Question ID : 4335764645

Option 1 ID : 43357618577

Option 2 ID : 43357618578

Option 3 ID : 43357618579

Option 4 ID : 43357618580

Status : Answered

Chosen Option : D

Q.13 If we rotate a right angled triangle of height 5 cm and base 3 cm about its height a
5 full turn, we get.....

- Ans ☒ A. cone of height 5 cm, base diameter 3 cm
☒ B. triangle of height 5 cm, base diameter 3 cm
☒ C. cone of height 5 cm, base diameter 6 cm
☒ D. triangle of height 5 cm, base diameter 6 cm

Question Type : MCQ
 Question ID : 4335764673
 Option 1 ID : 43357618689
 Option 2 ID : 43357618690
 Option 3 ID : 43357618691
 Option 4 ID : 43357618692
 Status : Answered
 Chosen Option : B

Q.13 Which among the following is/are the objective(s) of setting up of Planning Commission
6 in the 1950s in India ?
 1.To increase production and offering opportunities to all for employment
 2.To make assessment of all resources of the country

- Ans ☒ A. 1 only
☒ B. 2 only
☒ C. Both 1 and 2
☒ D. Neither 1 nor 2

Question Type : MCQ
 Question ID : 4335764432
 Option 1 ID : 43357617725
 Option 2 ID : 43357617726
 Option 3 ID : 43357617727
 Option 4 ID : 43357617728
 Status : Answered
 Chosen Option : C

Q.13 If Three Cubes of Metal of edges 6 cm, 8 cm, and 10 cm are melted and made into a
7 single cube. What is the edge of the new cube so formed?

- Ans ☒ A. 92 cm
☒ B. 24 cm
☒ C. 18 cm
☒ D. 12 cm

Question Type : MCQ
 Question ID : 4335764736
 Option 1 ID : 43357618941
 Option 2 ID : 43357618942
 Option 3 ID : 43357618943
 Option 4 ID : 43357618944
 Status : Answered
 Chosen Option : D

Q.13 Choose the correct option instead of the question mark in the given question.
8

BEAR : DCCP :: MART : ?

- Ans ☐ A. NCTV
☐ B. OCTV
☐ C. OYTV
☒ D. OYTR

Question Type : MCQ
 Question ID : 4335764843
 Option 1 ID : 43357619369
 Option 2 ID : 43357619370
 Option 3 ID : 43357619371
 Option 4 ID : 43357619372
 Status : Answered
 Chosen Option : D

Q.13 A system which is based on blood affinity relationship is called
9

- Ans ☐ A. Family
☐ B. Gotra
☒ C. Kinship
☐ D. Joint family

Question Type : MCQ
 Question ID : 4335764502
 Option 1 ID : 43357618005
 Option 2 ID : 43357618006
 Option 3 ID : 43357618007
 Option 4 ID : 43357618008
 Status : Answered
 Chosen Option : A

Q.14 The cost of the article was Rs. 15500 and Rs. 500 was spent on its repairing. If it is sold
0 for a profit of 15 Percent. The selling price of the article is:

- Ans ☐ A. Rs.16400
☐ B. Rs.17400
☒ C. Rs.18400
☐ D. Rs.19400

Question Type : MCQ
 Question ID : 4335764760
 Option 1 ID : 43357619037
 Option 2 ID : 43357619038
 Option 3 ID : 43357619039
 Option 4 ID : 43357619040
 Status : Answered
 Chosen Option : C

Q.14 Which one of the following is located in the Bastar region?

1

- Ans ☒ A. Bandhavgarh National Park
☒ B. Dandeli Sanctuary
☒ C. Rajaji National Park
☒ D. Indravati National Park

Question Type : MCQ
 Question ID : 4335764626
 Option 1 ID : 43357618501
 Option 2 ID : 43357618502
 Option 3 ID : 43357618503
 Option 4 ID : 43357618504
 Status : Answered
 Chosen Option : A

Q.14 Consider the following :

- 2 1. Pyroclastic debris
 2. Ash and dust
 3. Nitrogen compounds
 4. Sulphur compounds

How many of the above are products of volcanic eruptions?

- Ans ☒ A. Only one
☒ B. Only two
☒ C. Only three
☒ D. All four

Question Type : MCQ
 Question ID : 4335764389
 Option 1 ID : 43357617553
 Option 2 ID : 43357617554
 Option 3 ID : 43357617555
 Option 4 ID : 43357617556
 Status : Answered
 Chosen Option : D

Q.14 Ramesh has every 3rd day off in November. Guru Dayal has every 5th day off in November. Which date is the first time Ramesh and Guru Dayal have a day off together so they can hang out?

3

- Ans ☒ A. 9th Nov
☒ B. 20th Nov
☒ C. 15th Nov
☒ D. 30th Nov

Question Type : MCQ
 Question ID : 4335764703
 Option 1 ID : 43357618809
 Option 2 ID : 43357618810
 Option 3 ID : 43357618811
 Option 4 ID : 43357618812
 Status : Answered
 Chosen Option : C

Q.14 Just how many people were with Gandhiji at the beginning of the Salt Satyagraha?

4

Ans ☒ A. 72 people

☒ B. 78 people

☒ C. 75 people

☒ D. 82 people

Question Type : MCQ

Question ID : 4335764354

Option 1 ID : 43357617413

Option 2 ID : 43357617414

Option 3 ID : 43357617415

Option 4 ID : 43357617416

Status : Answered

Chosen Option : A

Q.14 Given below is a data set of temperatures (in °C)

5 -6 , -8 , -2 , 3 , 2 , 0 , 5 , 4 , 8

What is the range of the data ?

Ans ☒ A. 0 °C

☒ B. 16°C

☒ C. 18°C

☒ D. 10°C

Question Type : MCQ

Question ID : 4335764803

Option 1 ID : 43357619209

Option 2 ID : 43357619210

Option 3 ID : 43357619211

Option 4 ID : 43357619212

Status : Answered

Chosen Option : B

Q.14 _____ is the energy that is present in object due to its motion or position.

6

Ans ☒ A. mechanical energy

☒ B. light energy

☒ C. heat energy

☒ D. none of these

Question Type : MCQ

Question ID : 4335764544

Option 1 ID : 43357618173

Option 2 ID : 43357618174

Option 3 ID : 43357618175

Option 4 ID : 43357618176

Status : Answered

Chosen Option : A

Q.14 A group of 1200 persons consisting of boys and girls is travelling in a Bus. For every 15 boys there is one girl. The number of girls in the group is ?

- Ans ☒ A. 60
☒ B. 65
☒ C. 70
☒ D. 75

Question Type : MCQ
 Question ID : 4335764971
 Option 1 ID : 43357619881
 Option 2 ID : 43357619882
 Option 3 ID : 43357619883
 Option 4 ID : 43357619884
 Status : Answered
 Chosen Option : D

Q.14 Five person are sitting in a row facing you in such a way that D is to the left of C and B is to the right of E, A is to the right of C and B is to the left of D, E is at one end of the row. Then who is sitting exactly in the middle of the row ?

- Ans ☒ A. A
☒ B. B
☒ C. C
☒ D. D

Question Type : MCQ
 Question ID : 4335764940
 Option 1 ID : 43357619757
 Option 2 ID : 43357619758
 Option 3 ID : 43357619759
 Option 4 ID : 43357619760
 Status : Answered
 Chosen Option : D

Q.14 In the given letter series what letter will come in place of the question Symbol.
 9 KPL, ISH, GVD, ?

- Ans ☒ A. EYZ
☒ B. FXZ
☒ C. ZYW
☒ D. EXZ

Question Type : MCQ
 Question ID : 4335764869
 Option 1 ID : 43357619473
 Option 2 ID : 43357619474
 Option 3 ID : 43357619475
 Option 4 ID : 43357619476
 Status : Answered
 Chosen Option : A

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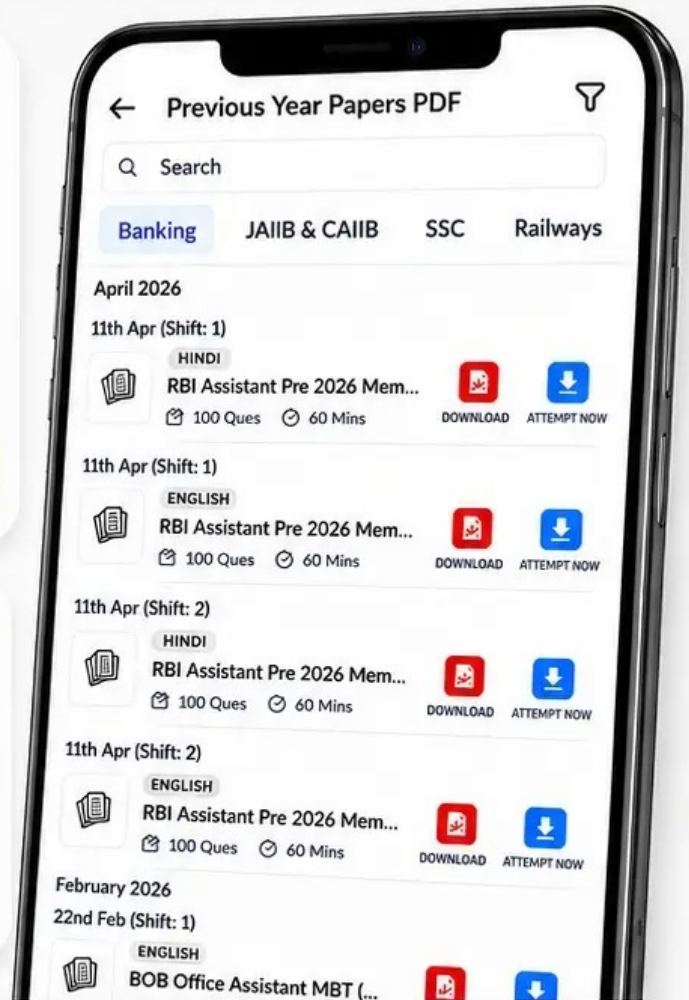
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Q.15 It is not micronutrient present in soil
0

- Ans
- ☒ A. Iron
 - ☒ B. Manganese
 - ☒ C. Chlorine
 - ☒ D. Nitrogen

Question Type : **MCQ**
 Question ID : **4335764577**
 Option 1 ID : **43357618305**
 Option 2 ID : **43357618306**
 Option 3 ID : **43357618307**
 Option 4 ID : **43357618308**
 Status : **Answered**
 Chosen Option : **D**

