

BSTET

(Class 11-12)

Previous Year Paper
(Physics)

16 Nov, 2025 Shift 1



बिहार विद्यालय परीक्षा समिति
BIHAR SCHOOL EXAMINATION BOARD

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

mit 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

ro megnetic 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

tween 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

nt 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

etic 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

n 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

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

f 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

I 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

d 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**

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

- 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

asured 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

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

h 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. $A = \frac{1}{\sqrt{\beta}}$

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

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**

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**

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 librated 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

xert 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

ulated 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

ternal 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

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

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

uit 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

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

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

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

, the moment of sorce 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**

o 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

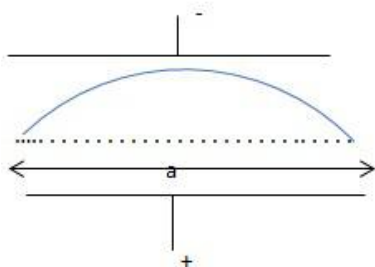
Question Type : **MCQ**
Question ID : **43357610218**
Option 1 ID : **43357640869**
Option 2 ID : **43357640870**
Option 3 ID : **43357640871**
Option 4 ID : **43357640872**
Status : **Answered**
Chosen Option : **C**

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**

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

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. consevation 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

aximum 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

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

's explanation of the Photoelectronic effect, what is the energy of a photon of light?

- Ans ☒ A. Inverely 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

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

5

room is mean for _____

- 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

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

ual 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**

arning 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

7

-visual aids in teaching is

- 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**

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**

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

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

9

aluation is to make a judgment about educational...

- 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

ted 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

led 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

8

tion instead of the question mark in the given question.

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

wing 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

- 3 November. Which date is the first time Ramesh and Guru Dayal have a day off together so they can hang out?

- 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

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

7 ns 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

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**