

**FOR GROUP TUTIONS (Classes 1 to 12<sup>th</sup>)**

**visit any of our center (near your house)**

**AKOTA/VASNA- BHAYLI/ KARELIBAGH**

**EDify Study Center (Expertise in school Exams)**

FOR FURTHER DETAILS CONTACT Neelesh Sir (9898966050) or

Visit our Website: <http://edifystudycenter.in/>

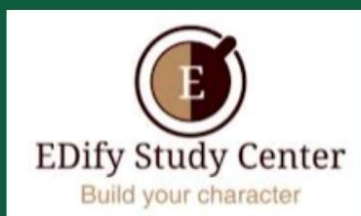
---

**PREVIOUS YEAR's QUESTIONS**

**NEET 2022**

**PHYSICS (SOLVED)**

---



**EDify Study Center**  
(EXPERTISE IN SCHOOL EXAMS)

**AKOTA/KARELIBAGH/VASNA BHAYLI**  
Group Tuition for K-12 Education ( Classes 1 to 12 )

**CBSE**

**ICSE**

**IB**

**IGCSE**

**GSEB**

**CONTACT: Neelesh Sir (9898966050)**

**VISIT OUR WEBSITE FOR FURTHER DETAILS:**

<http://edifystudycenter.in/>

1.Match List-I with List-II

**List-I**

**(Electromagnetic waves)**

(a) AM radio waves

**List-II**

**(Wavelength)**

(i)  $10^{-10}$  m

Visit our Website: <http://edifystudycenter.in/>

**Personal Group Tuition for Classes 1 to 12<sup>th</sup> (All subjects)**

**EDify Study Center (Expertise in School Exams)**

**Select any EDify Study Center Near your house in Vadodara**

**Contact Neelesh Sir (9898966050)**

**FOR GROUP TUTORINGS (Classes 1 to 12<sup>th</sup>)**

**visit any of our center (near your house)**

**AKOTA/VASNA- BHAYLI/ KARELIBAGH**

**EDify Study Center (Expertise in school Exams)**

FOR FURTHER DETAILS CONTACT Neelesh Sir (9898966050) or

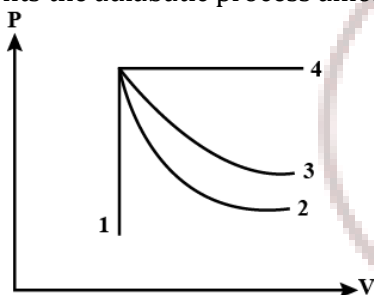
Visit our Website: <http://edifystudycenter.in/>

- |                         |                   |
|-------------------------|-------------------|
| (b) Microwaves          | (ii) $10^2$ m     |
| (c) Infrared radiations | (iii) $10^{-2}$ m |
| (d) X-rays              | (iv) $10^{-4}$ m  |

Choose the correct answer from the options given below

- (1) (a) - (iv), (b) - (iii), (c) - (ii), (d) - (i)  
(2) (a) - (iii), (b) - (ii), (c) - (i), (d) - (iv)  
(3) (a) - (iii), (b) - (iv), (c) - (ii), (d) - (i)  
(4) (a) - (ii), (b) - (iii), (c) - (iv), (d) - (i)

2. An ideal gas undergoes four different processes from the same initial state as shown in the figure below. Those processes are adiabatic, isothermal, isobaric and isochoric. The curve which represents the adiabatic process among 1, 2, 3 and 4 is



- (1) 1  
(2) 2  
(3) 3  
(4) 4

3. The angular speed of a fly wheel moving with uniform angular acceleration changes from 1200rpm to 3120rpm in 16 seconds. The angular acceleration in  $\text{rad/s}^2$  is :

- (1)  $2\pi$   
(2)  $4\pi$   
(3)  $12\pi$   
(4)  $104\pi$

4.

Visit our Website: <http://edifystudycenter.in/>

**Personal Group Tuition for Classes 1 to 12<sup>th</sup> (All subjects)**

**EDify Study Center (Expertise in School Exams)**

**Select any EDify Study Center Near your house in Vadodara**

**Contact Neelesh Sir (9898966050)**

**FOR GROUP TUTORIALS (Classes 1 to 12<sup>th</sup>)**

**visit any of our center (near your house)**

**AKOTA/VASNA- BHAYLI/ KARELIBAGH**

**EDify Study Center (Expertise in school Exams)**

FOR FURTHER DETAILS CONTACT Neelesh Sir (9898966050) or

Visit our Website: <http://edifystudycenter.in/>



(a)



(b)



(c)

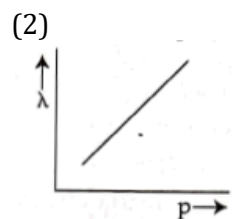
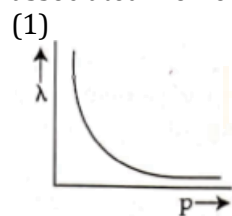
In the given circuits (a), (b) and (c), the potential drop across the two  $p-n$  junctions are equal in

- (1) Circuit (a) only
- (2) Circuit (b) only
- (3) Circuit (c) only
- (4) Both circuits (a) and (c)

5. A biconvex lens has radii of curvature, 20 cm each. If the refractive index of the material of the lens is 1.5, the power of the lens is

- (1) +2 D
- (2) +20 D
- (3) +5 D
- (4) Infinity

6. The graph which shows the variation of the de Broglie wavelength ( $\lambda$ ) of a particle and its associated momentum ( $p$ ) is



Visit our Website: <http://edifystudycenter.in/>

**Personal Group Tuition for Classes 1 to 12<sup>th</sup> (All subjects)**

**EDify Study Center (Expertise in School Exams)**

**Select any EDify Study Center Near your house in Vadodara**

**Contact Neelesh Sir (9898966050)**

**FOR GROUP TUTORINGS (Classes 1 to 12<sup>th</sup>)**

**visit any of our center (near your house)**

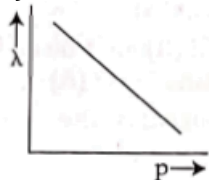
**AKOTA/VASNA- BHAYLI/ KARELIBAGH**

**EDify Study Center (Expertise in school Exams)**

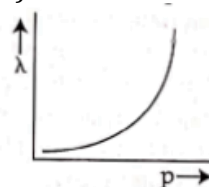
FOR FURTHER DETAILS CONTACT Neelesh Sir (9898966050) or

Visit our Website: <http://edifystudycenter.in/>

(3)



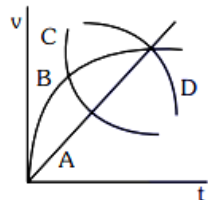
(4)



7. As the temperature increases, the electrical resistance

- (1) Increases for both conductors and semiconductors
- (2) Decreases for both conductors and semiconductors
- (3) Increases for conductors but decreases for semiconductors
- (4) Decreases for conductors but increases for semiconductors

8. A spherical ball is dropped in a long column of a highly viscous liquid. The curve in the graph shown, which represents the speed of the ball ( $v$ ) as a function of time ( $t$ ) is



- (1) A
- (2) B
- (3) C
- (4) D

9. The dimensions  $[MLT^{-2} A^{-2}]$  belong to the

- (1) Magnetic flux
- (2) Self inductance
- (3) Magnetic permeability
- (4) Electric permittivity

Visit our Website: <http://edifystudycenter.in/>

**Personal Group Tuition for Classes 1 to 12<sup>th</sup> (All subjects)**

**EDify Study Center (Expertise in School Exams)**

**Select any EDify Study Center Near your house in Vadodara**

**Contact Neelesh Sir (9898966050)**

**FOR GROUP TUTORIALS (Classes 1 to 12<sup>th</sup>)**

**visit any of our center (near your house)**

**AKOTA/VASNA- BHAYLI/ KARELIBAGH**

**EDify Study Center (Expertise in school Exams)**

FOR FURTHER DETAILS CONTACT Neelesh Sir (9898966050) or

Visit our Website: <http://edifystudycenter.in/>

10. In half wave rectification, if the input frequency is 60 Hz, then the output frequency would be

- (1) Zero
- (2) 30 Hz
- (3) 60 Hz
- (4) 120 Hz

11. If the initial tension on a stretched string is doubled, then the ratio of the initial and final speeds of a transverse wave along the string is

- (1) 1 : 1
- (2)  $\sqrt{2} : 1$
- (3)  $1 : \sqrt{2}$
- (4) 1 : 2

12. A shell of mass  $m$  is at rest initially. It explodes into three fragments having mass in the ratio 2 : 2 : 1. If the fragments having equal mass fly off along mutually perpendicular directions with speed  $v$ , the speed of the third (lighter) fragment is

- (1)  $v$
- (2)  $2v$
- (3)  $2\sqrt{2}v$
- (4)  $3\sqrt{2}v$

13. Two objects of mass 10 kg and 20 kg respectively are connected to the two ends of a rigid rod of length 10 m with negligible mass. The distance of the center of mass of the system from the 10 kg mass is

- (1) 5 m
- (2)  $10/3$  m
- (3)  $20/3$  m
- (4) 10 m

14. If a soap bubble expands, the pressure inside the bubble

- (1) Decreases
- (2) Increases
- (3) Remains the same
- (4) Is equal to the atmospheric pressure

15. An electric lift with a maximum load of 2000 kg (lift + passengers) is moving up with a constant speed of  $1.5 \text{ ms}^{-1}$ . The frictional force opposing the motion is 3000 N. The minimum power delivered by the motor to the lift in watts is : ( $g = 10 \text{ ms}^{-2}$ )

- (1) 23000

Visit our Website: <http://edifystudycenter.in/>

**Personal Group Tuition for Classes 1 to 12<sup>th</sup> (All subjects)**

**EDify Study Center (Expertise in School Exams)**

**Select any EDify Study Center Near your house in Vadodara**

**Contact Neelesh Sir (9898966050)**

**FOR GROUP TUTORINGS (Classes 1 to 12<sup>th</sup>)**

**visit any of our center (near your house)**

**AKOTA/VASNA- BHAYLI/ KARELIBAGH**

**EDify Study Center (Expertise in school Exams)**

FOR FURTHER DETAILS CONTACT Neelesh Sir (9898966050) or

Visit our Website: <http://edifystudycenter.in/>

- (2) 20000
- (3) 34500
- (4) 23500

16. The angle between the electric lines of force and the equipotential surface is

- (1) 0°
- (2) 45°
- (3) 90°
- (4) 180°

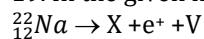
17. When two monochromatic lights of frequency,  $\nu$  and  $\nu/2$  are incident on a photoelectric metal, their stopping potential becomes  $V_s/2$  and  $V_s$  respectively. The threshold frequency for this metal is

- (1)  $2\nu$
- (2)  $3\nu$
- (3)  $2/3\nu$
- (4)  $3/2\nu$

18. A long solenoid of radius 1 mm has 100 turns per mm. If 1 A current flows in the solenoid, the magnetic field strength at the centre of the solenoid is

- (1)  $6.28 \times 10^{-2}$  T
- (2)  $12.56 \times 10^{-2}$  T
- (3)  $12.56 \times 10^{-4}$  T
- (4)  $6.28 \times 10^{-4}$  T

19. In the given nuclear reaction, the element X is



- (1)  ${}_{12}^{22}\text{Mg}$
- (2)  ${}_{11}^{23}\text{Mg}$
- (3)  ${}_{10}^{23}\text{Mg}$
- (4)  ${}_{10}^{22}\text{Mg}$

20. Given below are two statements

**Statement I :** Biot-Savart's law gives us the expression for the magnetic field strength of an infinitesimal

current element ( $Idl$ ) of a current carrying conductor only.

**Statement II :** Biot-Savart's law is analogous to Coulomb's inverse square law of charge  $q$ , with the former being related to the field produced by a scalar source,  $Idl$  while the latter being produced by a vector source,  $q$ .

In light of above statements choose the most appropriate answer from the options given below

Visit our Website: <http://edifystudycenter.in/>

**Personal Group Tuition for Classes 1 to 12<sup>th</sup> (All subjects)**

**EDify Study Center (Expertise in School Exams)**

**Select any EDify Study Center Near your house in Vadodara**

**Contact Neelesh Sir (9898966050)**

**FOR GROUP TUTORINGS (Classes 1 to 12<sup>th</sup>)**

**visit any of our center (near your house)**

**AKOTA/VASNA- BHAYLI/ KARELIBAGH**

**EDify Study Center (Expertise in school Exams)**

FOR FURTHER DETAILS CONTACT Neelesh Sir (9898966050) or

Visit our Website: <http://edifystudycenter.in/>

- (1) Both Statement I and Statement II are correct
- (2) Both Statement I and Statement II are incorrect
- (3) Statement I is correct and Statement II is incorrect
- (4) Statement I is incorrect and Statement II is correct

21. The ratio of the radius of gyration of a thin uniform disc about an axis passing through its centre and normal to its plane to the radius of gyration of the disc about its diameter is

- (1) 2 : 1
- (2)  $\sqrt{2}$  : 1
- (3) 4 : 1
- (4) 1 :  $\sqrt{2}$

22. The peak voltage of the ac source is equal to

- (1) The value of voltage supplied to the circuit
- (2) The rms value of the ac source
- (3)  $\sqrt{2}$  times the rms value of the ac source
- (4)  $1/\sqrt{2}$  times the rms value of the ac source

23. The energy that will be ideally radiated by a 100 kW transmitter in 1 hour is

- (1)  $36 \times 10^7$  J
- (2)  $36 \times 10^4$  J
- (3)  $36 \times 10^5$  J
- (4)  $1 \times 10^5$  J

24. In a Young's double slit experiment, a student observes 8 fringes in a certain segment of screen when a monochromatic light of 600 nm wavelength is used. If the wavelength of light is changed to 400 nm, then the number of fringes he would observe in the same region of the screen is

- (1) 6
- (2) 8
- (3) 9
- (4) 12

25. A square loop of side 1 m and resistance  $1 \Omega$  is placed in a magnetic field of 0.5 T. If the plane of loop is perpendicular to the direction of magnetic field, the magnetic flux through the loop is

- (1) 2 weber
- (2) 0.5 weber
- (3) 1 weber
- (4) Zero weber

Visit our Website: <http://edifystudycenter.in/>

**Personal Group Tuition for Classes 1 to 12<sup>th</sup> (All subjects)**

**EDify Study Center (Expertise in School Exams)**

**Select any EDify Study Center Near your house in Vadodara**

**Contact Neelesh Sir (9898966050)**

**FOR GROUP TUTORIALS (Classes 1 to 12<sup>th</sup>)**

**visit any of our center (near your house)**

**AKOTA/VASNA- BHAYLI/ KARELIBAGH**

**EDify Study Center (Expertise in school Exams)**

FOR FURTHER DETAILS CONTACT Neelesh Sir (9898966050) or

Visit our Website: <http://edifystudycenter.in/>

26. Two resistors of resistance,  $100 \Omega$  and  $200 \Omega$  are connected in parallel in an electrical circuit. The ratio of the thermal energy developed in  $100 \Omega$  to that in  $200 \Omega$  in a given time is

- (1) 1 : 2
- (2) 2 : 1
- (3) 1 : 4
- (4) 4 : 1

27. The ratio of the distances travelled by a freely falling body in the 1st, 2nd, 3rd and 4th second

- (1) 1 : 2 : 3 : 4
- (2) 1 : 4 : 9 : 16
- (3) 1 : 3 : 5 : 7
- (4) 1 : 1 : 1 : 1

28. A body of mass 60 g experiences a gravitational force of 3.0 N, when placed at a particular point. The magnitude of the gravitational field intensity at that point is

- (1) 0.05 N/kg
- (2) 50 N/kg
- (3) 20 N/kg
- (4) 180 N/kg

29. A light ray falls on a glass surface of refractive index  $\sqrt{3}$ , at an angle  $60^\circ$ . The angle between the refracted and reflected rays would be

- (1)  $30^\circ$
- (2)  $60^\circ$
- (3)  $90^\circ$
- (4)  $120^\circ$

30. When light propagates through a material medium of relative permittivity  $\epsilon_r$  and relative permeability  $\mu_r$ , the velocity of light,  $v$  is given by ( $c$ -velocity of light in vacuum)

- (1)  $v = c$
- (2)  $v = \sqrt{\frac{m_r}{\epsilon_r}}$
- (3)  $v = \sqrt{\frac{\epsilon_r}{m_r}}$
- (4)  $v = \frac{c}{\sqrt{\epsilon_r \mu_r}}$

31. Two hollow conducting spheres of radii  $R_1$  and  $R_2$  ( $R_1 \gg R_2$ ) have equal charges. The potential would be

- (1) More on bigger sphere

Visit our Website: <http://edifystudycenter.in/>

**Personal Group Tuition for Classes 1 to 12<sup>th</sup> (All subjects)**

**EDify Study Center (Expertise in School Exams)**

**Select any EDify Study Center Near your house in Vadodara**

**Contact Neelesh Sir (9898966050)**



**FOR GROUP TUTORINGS (Classes 1 to 12<sup>th</sup>)**

**visit any of our center (near your house)**

**AKOTA/VASNA- BHAYLI/ KARELIBAGH**

**EDify Study Center (Expertise in school Exams)**

FOR FURTHER DETAILS CONTACT Neelesh Sir (9898966050) or

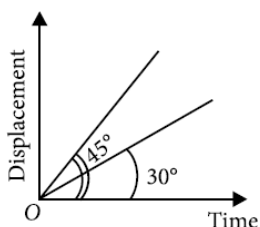
Visit our Website: <http://edifystudycenter.in/>

- (2) More on smaller sphere
- (3) Equal on both the spheres
- (4) Dependent on the material property of the sphere

32. A copper wire of length 10 m and radius  $\left(\frac{10^{-2}}{\sqrt{x}}\right)$  m has electrical resistance of 10  $\Omega$ . The current density in the wire for an electric field strength of 10 (V/m) is

- (1)  $10^4$  A/m<sup>2</sup>
- (2)  $10^6$  A/m<sup>2</sup>
- (3)  $10^{-5}$  A/m<sup>2</sup>
- (4)  $10^5$  A/m<sup>2</sup>

33. The displacement-time graphs of two moving particles make angles of 30° and 45° with the x-axis as shown in the figure. The ratio of their respective velocity is



- (1)  $\sqrt{3} : 1$
- (2) 1 : 1
- (3) 1 : 2
- (4)  $1 : \sqrt{3}$

34. Plane angle and solid angle have

- (1) Units but no dimensions
- (2) Dimensions but no units
- (3) No units and no dimensions
- (4) Both units and dimensions

35. Let  $T_1$  and  $T_2$  be the energy of an electron in the first and second excited states of hydrogen atoms, respectively. According to the Bohr's model of an atom, the ratio  $T_1 : T_2$  is

- (1) 1 : 4
- (2) 4 : 1
- (3) 4 : 9

Visit our Website: <http://edifystudycenter.in/>

**Personal Group Tuition for Classes 1 to 12<sup>th</sup> (All subjects)**

**EDify Study Center (Expertise in School Exams)**

**Select any EDify Study Center Near your house in Vadodara**

**Contact Neelesh Sir (9898966050)**

**FOR GROUP TUTORINGS (Classes 1 to 12<sup>th</sup>)**

**visit any of our center (near your house)**

**AKOTA/VASNA- BHAYLI/ KARELIBAGH**

**EDify Study Center (Expertise in school Exams)**

FOR FURTHER DETAILS CONTACT Neelesh Sir (9898966050) or

Visit our Website: <http://edifystudycenter.in/>

(4) 9 : 4

36. Match List-I with List-II

**List-I**

- (a) Gravitational constant (G)
- (b) Gravitational potential energy
- (c) Gravitational potential
- (d) Gravitational intensity

**List-II**

- (i)  $[L^2T^{-2}]$
- (ii)  $[M^{-1}L^3T^{-2}]$
- (iii)  $[LT^{-2}]$
- (iv)  $[ML^2T^{-2}]$

Choose the correct answer from the options given below

- (1) (a) - (ii), (b) - (i), (c) - (iv), (d) - (iii)
- (2) (a) - (ii), (b) - (iv), (c) - (i), (d) - (iii)
- (3) (a) - (ii), (b) - (iv), (c) - (iii), (d) - (i)
- (4) (a) - (iv), (b) - (ii), (c) - (i), (d) - (iii)

37. Two pendulums of length 121 cm and 100 cm start vibrating in phase. At some instant, the two are at their mean position in the same phase. The minimum number of vibrations of the shorter pendulum after which the two are again in phase at the mean position is:

- (1) 11
- (2) 9
- (3) 10
- (4) 8

38. The area of a rectangular field (in m<sup>2</sup>) of length 55.3 m and breadth 25 m after rounding off the value for correct significant digits is

- (1)  $138 \times 10^1$
- (2) 1382
- (3) 1382.5
- (4)  $14 \times 10^2$

39. A ball is projected with a velocity, 10 ms<sup>-1</sup>, at an angle of 60° with the vertical direction. Its speed at the highest point of its trajectory will be

- (1) Zero
- (2)  $5\sqrt{3}$  ms<sup>-1</sup>
- (3) 5 ms<sup>-1</sup>
- (4) 10 ms<sup>-1</sup>

40.

Visit our Website: <http://edifystudycenter.in/>

**Personal Group Tuition for Classes 1 to 12<sup>th</sup> (All subjects)**

**EDify Study Center (Expertise in School Exams)**

**Select any EDify Study Center Near your house in Vadodara**

**Contact Neelesh Sir (9898966050)**



**FOR GROUP TUTORINGS (Classes 1 to 12<sup>th</sup>)**

**visit any of our center (near your house)**

**AKOTA/VASNA- BHAYLI/ KARELIBAGH**

**EDify Study Center (Expertise in school Exams)**

FOR FURTHER DETAILS CONTACT Neelesh Sir (9898966050) or

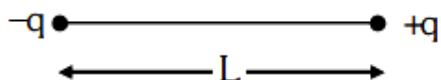
Visit our Website: <http://edifystudycenter.in/>

- (2) A linearly increasing function of distance upto the boundary of the wire and then linearly decreasing for the outside region.
- (3) A linearly increasing function of distance  $r$  upto the boundary of the wire and then decreasing one with  $\frac{1}{r}$  dependence for the outside region.
- (4) A linearly decreasing function of distance upto the boundary of the wire and then a linearly increasing one for the outside region.

42. A series LCR circuit with inductance 10 H, capacitance 10  $\mu\text{F}$ , resistance 50  $\Omega$  is connected to an ac source of voltage,  $V = 200\sin(100t)$  volt. If the resonant frequency of the LCR circuit is  $\nu_1$  and the frequency of the ac source is  $\nu$ , then

- (1)  $\nu_0 = \nu = 50$  Hz
- (2)  $\nu_0 = \nu = \frac{50}{\pi}$  Hz
- (3)  $\nu_0 = \frac{50}{\pi}$  Hz,  $\nu = 50$  Hz
- (4)  $\nu = 100$  Hz;  $\nu_0 = \frac{100}{\pi}$  Hz

43. Two point charges  $-q$  and  $+q$  are placed at a distance of  $L$ , as shown in the figure.



The magnitude of electric field intensity at a distance  $R$  ( $R \gg L$ ) varies as:

- (1)  $1/R^3$
- (2)  $1/R^4$
- (3)  $1/R^6$
- (4)  $1/R^2$

44. Given below are two statements : One is labelled as **Assertion (A)** and the other is labelled as **Reason (R)**.

**Assertion (A):** The stretching of a spring is determined by the shear modulus of the material of the spring.

**Reason (R):** A coil spring of copper has more tensile strength than a steel spring of same dimensions.

In the light of the above statements, choose the **most appropriate** answer from the options given below

- (1) Both **(A)** and **(R)** are true and **(R)** is the correct explanation of **(A)**
- (2) Both **(A)** and **(R)** are true and **(R)** is not the correct explanation of **(A)**
- (3) **(A)** is true but **(R)** is false
- (4) **(A)** is false but **(R)** is true

Visit our Website: <http://edifystudycenter.in/>

**Personal Group Tuition for Classes 1 to 12<sup>th</sup> (All subjects)**

**EDify Study Center (Expertise in School Exams)**

**Select any EDify Study Center Near your house in Vadodara**

**Contact Neelesh Sir (9898966050)**

**FOR GROUP TUTORIALS (Classes 1 to 12<sup>th</sup>)**

**visit any of our center (near your house)**

**AKOTA/VASNA- BHAYLI/ KARELIBAGH**

**EDify Study Center (Expertise in school Exams)**

FOR FURTHER DETAILS CONTACT Neelesh Sir (9898966050) or

Visit our Website: <http://edifystudycenter.in/>

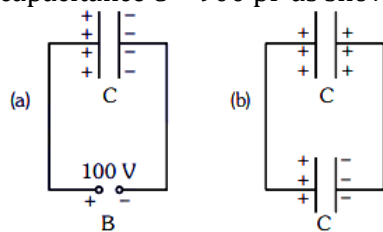
45. A big circular coil of 1000 turns and average radius 10 m is rotating about its horizontal diameter at  $2 \text{ rad s}^{-1}$ . If the vertical component of earth's magnetic field at that place is  $2 \times 10^{-5} \text{ T}$  and electrical resistance of the coil is  $12.56 \Omega$ , then the maximum induced current in the coil will be

- (1) 0.25 A
- (2) 1.5 A
- (3) 1 A
- (4) 2 A

46. The volume occupied by the molecules contained in 4.5 kg water at STP, if the intermolecular forces vanish away is

- (1)  $5.6 \times 10^6 \text{ m}^3$
- (2)  $5.6 \times 10^3 \text{ m}^3$
- (3)  $5.6 \times 10^{-3} \text{ m}^3$
- (4)  $5.6 \text{ m}^3$

47. A capacitor of capacitance  $C = 900 \text{ pF}$  is charged fully by 100 V battery  $B$  as shown in figure (a). Then it is disconnected from the battery and connected to another uncharged capacitor of capacitance  $C = 900 \text{ pF}$  as shown in figure (b). The electrostatic energy stored by the system (b) is



- (1)  $4.5 \times 10^{-6} \text{ J}$
- (2)  $3.25 \times 10^{-6} \text{ J}$
- (3)  $2.25 \times 10^{-6} \text{ J}$
- (4)  $1.5 \times 10^{-6} \text{ J}$

48. A wheatstone bridge is used to determine the value of unknown resistance  $X$  by adjusting the variable resistance  $Y$  as shown in the figure. For the most precise measurement of  $X$ , the resistances  $P$  and  $Q$

Visit our Website: <http://edifystudycenter.in/>

**Personal Group Tuition for Classes 1 to 12<sup>th</sup> (All subjects)**

**EDify Study Center (Expertise in School Exams)**

**Select any EDify Study Center Near your house in Vadodara**

**Contact Neelesh Sir (9898966050)**

**FOR GROUP TUTORIALS (Classes 1 to 12<sup>th</sup>)**

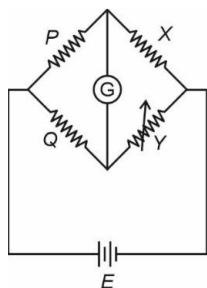
**visit any of our center (near your house)**

**AKOTA/VASNA- BHAYLI/ KARELIBAGH**

**EDify Study Center (Expertise in school Exams)**

FOR FURTHER DETAILS CONTACT Neelesh Sir (9898966050) or

Visit our Website: <http://edifystudycenter.in/>



- (1) should be approximately equal to  $2X$
  - (2) should be approximately equal and are small
  - (3) should be very large and unequal
  - (4) do not play any significant role
- 48(3) Resistance of P&Q should be approx. equal as it decreases error in experiment.

49. Two transparent media  $A$  and  $B$  are separated by a plane boundary. The speed of light in those media are  $1.5 \times 10^8$  m/s and  $2.0 \times 10^8$  m/s, respectively. The critical angle for a ray of light for these two media is

- (1)  $\sin^{-1}(0.500)$
- (2)  $\sin^{-1}(0.750)$
- (3)  $\tan^{-1}(0.500)$
- (4)  $\tan^{-1}(0.750)$

50. A nucleus of mass number 189 splits into two nuclei having mass number 125 and 64. The ratio of radius of two daughter nuclei respectively is

- (1) 1 : 1
- (2) 4 : 5
- (3) 5 : 4
- (4) 25 : 16

Visit our Website: <http://edifystudycenter.in/>

**Personal Group Tuition for Classes 1 to 12<sup>th</sup> (All subjects)**

**EDify Study Center (Expertise in School Exams)**

**Select any EDify Study Center Near your house in Vadodara**

**Contact Neelesh Sir (9898966050)**

**FOR GROUP TUTORIALS (Classes 1 to 12<sup>th</sup>)**

**visit any of our center (near your house)**

**AKOTA/VASNA- BHAYLI/ KARELIBAGH**

**EDify Study Center (Expertise in school Exams)**

FOR FURTHER DETAILS CONTACT Neelesh Sir (9898966050) or

Visit our Website: <http://edifystudycenter.in/>

**Solutions**

1(4)

- => Radio wave  $\approx 10^2\text{m}$
- => Microwave  $\approx 10^{-2}\text{m}$
- => Infrared radiations  $\approx 10^{-4}\text{m}$
- => X-ray (i)  $= 10^{-10}\text{m}$

2(2)

When a thermodynamic system undergoes a change in such a way that no exchange of heat takes place between it and the surroundings, the process is known as adiabatic process. Graph 4 is isobaric process, 1 is isochoric. Of 2 and 3, 2 has the smaller slope (magnitude) hence is isothermal. Remaining process is adiabatic.

3(2)

$$\begin{aligned}\omega &= \omega_0 + \alpha t \\ \alpha &= \frac{\omega - \omega_0}{t} \\ &= \frac{(3120 - 1200)}{16} \text{rpm} \\ &= \frac{1920}{16} \times \frac{2\pi}{60} \text{rad/s}^2 \\ &= 4\pi \text{rad/s}^2\end{aligned}$$

(4)

In (a) & (c) circuits, both the junctions are in same biasing conditions so offers equal resistances. Since both are in series, therefore equal potential will drop across the junction.

5 (3)

$$R_1 = R_2 = 20 \text{ cm} = 0.2$$

$$\mu = \frac{3}{2}$$

$$P = \frac{1}{f} = (\mu - 1) \left( \frac{1}{R_1} - \frac{1}{R_2} \right)$$

Visit our Website: <http://edifystudycenter.in/>

**Personal Group Tuition for Classes 1 to 12<sup>th</sup> (All subjects)**

**EDify Study Center (Expertise in School Exams)**

**Select any EDify Study Center Near your house in Vadodara**

**Contact Neelesh Sir (9898966050)**

**FOR GROUP TUTORINGS (Classes 1 to 12<sup>th</sup>)**

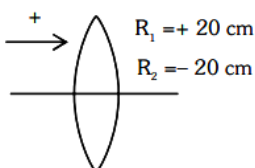
**visit any of our center (near your house)**

**AKOTA/VASNA- BHAYLI/ KARELIBAGH**

**EDify Study Center (Expertise in school Exams)**

FOR FURTHER DETAILS CONTACT Neelesh Sir (9898966050) or

Visit our Website: <http://edifystudycenter.in/>

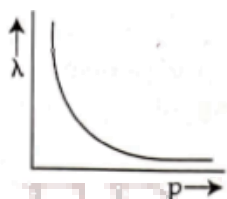


$$\begin{aligned} P &= \left(\frac{3}{2} - 1\right) \left(\frac{1}{0.2} + \frac{1}{0.2}\right) \\ &= \frac{1}{2} \left(\frac{0.2}{0.2}\right) \\ &= \frac{10}{2} \\ &= +5D \end{aligned}$$

6(1)

$$\lambda = \frac{h}{p}$$

Graph will be hyperbolic



7(3)

For conductors  $\alpha$  is (+)ve

For semiconductors & Insulators  $\alpha$  is (-)ve

8(2)

Initially speed is zero, then increases & after some time it becomes constant. Acceleration (slope of  $v/t$  curve) of ball first decreases and after some time it becomes zero.

9(3)

$[MLT^{-2}A^{-2}]$  = Magnetic permeability

10(3)

Visit our Website: <http://edifystudycenter.in/>

**Personal Group Tuition for Classes 1 to 12<sup>th</sup> (All subjects)**

**EDify Study Center (Expertise in School Exams)**

**Select any EDify Study Center Near your house in Vadodara**

**Contact Neelesh Sir (9898966050)**



**FOR GROUP TUTORINGS (Classes 1 to 12<sup>th</sup>)**

**visit any of our center (near your house)**

**AKOTA/VASNA- BHAYLI/ KARELIBAGH**

**EDify Study Center (Expertise in school Exams)**

FOR FURTHER DETAILS CONTACT Neelesh Sir (9898966050) or

Visit our Website: <http://edifystudycenter.in/>

In half wave rectification

$$f_{in} = f_{out}$$

$$\Rightarrow f_{out} = 60\text{Hz}$$

11 (3)

$$v = \sqrt{\text{Tension}}$$

$$\frac{v_1}{v_2} = \sqrt{\frac{T_i}{T_f}}$$

$$\frac{v_1}{v_2} = \sqrt{\frac{T}{2T}}$$

$$\frac{v_1}{v_2} = \sqrt{\frac{1}{2}} = \frac{1}{\sqrt{2}}$$

12(3)

Momentum of the system would remain conserved.

Initial momentum = 0

Final momentum should also be zero.

Let masses be 2m, 2m and m

Momentum along x-direction =  $2mv\hat{i}$

Momentum along y-direction =  $2mv\hat{j}$

Net momentum =  $\sqrt{(2mv)^2 + (2mv)^2} = \sqrt{2} \cdot 2mv$

Now,  $2\sqrt{2}mv = mv'$

$$v' = 2\sqrt{2}v$$

13 (2)

Visit our Website: <http://edifystudycenter.in/>

**Personal Group Tuition for Classes 1 to 12<sup>th</sup> (All subjects)**

**EDify Study Center (Expertise in School Exams)**

**Select any EDify Study Center Near your house in Vadodara**

**Contact Neelesh Sir (9898966050)**

**FOR GROUP TUTORIALS (Classes 1 to 12<sup>th</sup>)**

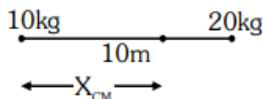
**visit any of our center (near your house)**

**AKOTA/VASNA- BHAYLI/ KARELIBAGH**

**EDify Study Center (Expertise in school Exams)**

FOR FURTHER DETAILS CONTACT Neelesh Sir (9898966050) or

Visit our Website: <http://edifystudycenter.in/>



$$X_{CM} = \frac{20 \times 10}{20 + 10} = 20/3 \text{ cm}$$

14(1)

$$P = P_0 + \frac{4T}{R}$$

⇒ R increases and P decreases

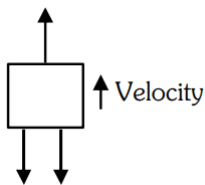
15 (3)

Constant velocity ⇒ a=0

$$\Rightarrow T = W + f$$

$$= 20000 + 3000$$

$$= 23000 \text{ N}$$



$$\Rightarrow \text{Power} = Tv$$

$$= 23000 \times 1.5$$

$$= 34500 \text{ watts}$$

16 (3)

The angle between Electric field and an equi-potential surface is always 90°.

This is because, when the potential becomes constant, the negative potential gradient also becomes zero, hence necessitating the need for Electric field to be always normal with surface.

17 (4)

Using Einstein's photoelectric equation we can write,

For the first case,

$$h\nu = \Phi + e \left( \frac{V_s}{2} \right) \dots (1)$$

For second case,

$$h \frac{\nu}{2} = \Phi + e(V_s) \dots (2)$$

Using value of e(V<sub>s</sub>) from equation(2) in equation(1), we can write,

Visit our Website: <http://edifystudycenter.in/>

**Personal Group Tuition for Classes 1 to 12<sup>th</sup> (All subjects)**

**EDify Study Center (Expertise in School Exams)**

**Select any EDify Study Center Near your house in Vadodara**

**Contact Neelesh Sir (9898966050)**

**FOR GROUP TUTORIALS (Classes 1 to 12<sup>th</sup>)**

**visit any of our center (near your house)**

**AKOTA/VASNA- BHAYLI/ KARELIBAGH**

**EDify Study Center (Expertise in school Exams)**

FOR FURTHER DETAILS CONTACT Neelesh Sir (9898966050) or

Visit our Website: <http://edifystudycenter.in/>

$$h\nu = \Phi + \frac{1}{2} \left( \frac{h\nu}{2} - \Phi \right)$$

$$h\nu = \Phi + \frac{h\nu}{4} - \frac{\Phi}{2}$$

$$\frac{\Phi}{2} = \frac{3h\nu}{4}$$

$$\Phi = \frac{3h\nu}{2}$$

As we know,  $\Phi = h\nu_0$

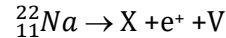
$$\text{Therefore } V_0 = \frac{3\nu}{2}$$

18 (2)

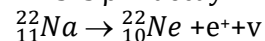
$$B = \mu_0 n i = \mu_0 \frac{N}{l} i$$

$$\therefore B = 4\pi \times 10^{-7} \times \frac{100}{10^{-3}} \times 1$$
$$= 12.56 \times 10^{-2} \text{T}$$

19 (4)



This is  $\beta^+$  - decay



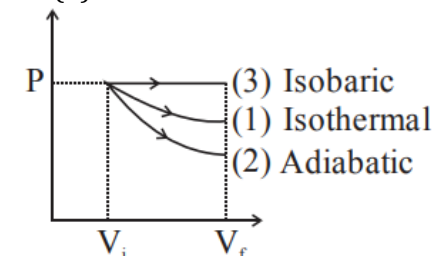
20 (3)

As per Biot Savart law,

$$dB = \frac{\mu_0 (Id\vec{l} \times \vec{r})}{4\pi r^3}$$

the expression for magnetic field depends on current carrying element  $Id\vec{l}$ , which is a vector quantity, therefore, statement-I is correct and statement-II is wrong.

21 (2)



Visit our Website: <http://edifystudycenter.in/>

**Personal Group Tuition for Classes 1 to 12<sup>th</sup> (All subjects)**

**EDify Study Center (Expertise in School Exams)**

**Select any EDify Study Center Near your house in Vadodara**

**Contact Neelesh Sir (9898966050)**

**FOR GROUP TUTORIALS (Classes 1 to 12<sup>th</sup>)**

**visit any of our center (near your house)**

**AKOTA/VASNA- BHAYLI/ KARELIBAGH**

**EDify Study Center (Expertise in school Exams)**

FOR FURTHER DETAILS CONTACT Neelesh Sir (9898966050) or

Visit our Website: <http://edifystudycenter.in/>

$$k = \sqrt{\frac{I}{m}}$$

$$\frac{k_1}{k_2} = \sqrt{\frac{I_1}{I_2}}$$

$$\sqrt{\frac{mR^2/2}{mR^2/4}} = \sqrt{2} : 1$$

22(3)  $\sqrt{2}$  times the rms value of the ac source

$$e_{\text{RMS}} = \frac{e_0}{\sqrt{2}}$$

$$e_0 = \sqrt{2} e_{\text{RMS}}$$

23(1)

$$E = P \times t$$

$$= 100 \times 10^3 \times 3600$$

$$= 36 \times 10^7 \text{ J}$$

24(4)

$$y = (n\lambda) \left( \frac{D}{d} \right)$$

$$n_1 \lambda_1 = n_2 \lambda_2$$

$$(8)(600 \text{ nm}) = n_2(400)$$

$$n_2 = 12$$

25(2)

As plane of loop is perpendicular to the direction of magnetic field, therefore direction of area vector will be parallel to magnetic field.

Magnetic flux is given by,

$$\Phi = \vec{B} \cdot \vec{A}$$

$$= 0.5 (1)^2 \cos 0^\circ$$

$$= 0.5 \text{ Wb}$$

26(2)

Visit our Website: <http://edifystudycenter.in/>

**Personal Group Tuition for Classes 1 to 12<sup>th</sup> (All subjects)**

**EDify Study Center (Expertise in School Exams)**

**Select any EDify Study Center Near your house in Vadodara**

**Contact Neelesh Sir (9898966050)**

**FOR GROUP TUTORINGS (Classes 1 to 12<sup>th</sup>)**

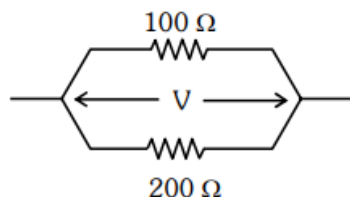
**visit any of our center (near your house)**

**AKOTA/VASNA- BHAYLI/ KARELIBAGH**

**EDify Study Center (Expertise in school Exams)**

FOR FURTHER DETAILS CONTACT Neelesh Sir (9898966050) or

Visit our Website: <http://edifystudycenter.in/>



As both resistors are in parallel combination so potential drop (V) across both are same.

$$P = \frac{V^2}{R}$$
$$\Rightarrow P \propto \frac{1}{R}$$

$$\frac{P_1}{P_2} = \frac{R_2}{R_1} = \frac{200}{100} = \frac{2}{1}$$

$$= 2 : 1$$

27(3)

$$S_{nth} = u + \frac{a}{2}(2n-1)$$
$$= 0 + \frac{a}{2}(2n-1)$$

$$S_{nth} \propto (2n-1)$$

$$\Rightarrow S_{1st}, S_{2nd}, S_{3rd}, S_{4th} = [2(1)-1] : [2(2)-1] : [2(3)-1] : [2(4)-1]$$
$$= 1 : 3 : 5 : 7$$

28(2)

Gravitation force,  $F_G = E_g \times m$ , Where  $E_g$  = gravitation at the given point

$$E_g = \frac{F_G}{m} = \frac{3}{60 \times 10^{-3}} = 50 \text{ N Kg}^{-1}$$

29(3)

Visit our Website: <http://edifystudycenter.in/>

**Personal Group Tuition for Classes 1 to 12<sup>th</sup> (All subjects)**

**EDify Study Center (Expertise in School Exams)**

**Select any EDify Study Center Near your house in Vadodara**

**Contact Neelesh Sir (9898966050)**

**FOR GROUP TUTORIALS (Classes 1 to 12<sup>th</sup>)**

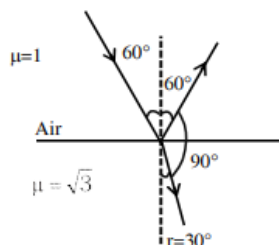
**visit any of our center (near your house)**

**AKOTA/VASNA- BHAYLI/ KARELIBAGH**

**EDify Study Center (Expertise in school Exams)**

FOR FURTHER DETAILS CONTACT Neelesh Sir (9898966050) or

Visit our Website: <http://edifystudycenter.in/>



Method (i)

By Snell's law

$$1 \sin 60^\circ = \sqrt{3} \sin r$$

$$\frac{\sqrt{3}}{2} = \sqrt{3} \sin r$$

$$\sin r = \frac{1}{2}$$

$$r = 30^\circ$$

Angle between refracted and reflected ray is  $90^\circ$

Method (ii)

Because angle of incidence is Brewster's angle so that angle between reflected and refracted ray is  $90^\circ$

$$\tan i_p = \mu = \sqrt{3} = 60^\circ = i$$

30(4)

$$n = \sqrt{\epsilon_r \mu_r}$$

$$n = \frac{c}{v}$$

$$v = \frac{c}{n}$$

$$v = \left( \frac{c}{\sqrt{\epsilon_r \mu_r}} \right)$$

31(2)

Potential at the surface of the spheres will be given by,  $V = \frac{kQ}{R}$ . As charge on both the spheres is equal, therefore, smaller sphere will have higher potential.

Visit our Website: <http://edifystudycenter.in/>

**Personal Group Tuition for Classes 1 to 12<sup>th</sup> (All subjects)**

**EDify Study Center (Expertise in School Exams)**

**Select any EDify Study Center Near your house in Vadodara**

**Contact Neelesh Sir (9898966050)**

**FOR GROUP TUTORINGS (Classes 1 to 12<sup>th</sup>)**

**visit any of our center (near your house)**

**AKOTA/VASNA- BHAYLI/ KARELIBAGH**

**EDify Study Center (Expertise in school Exams)**

FOR FURTHER DETAILS CONTACT Neelesh Sir (9898966050) or

Visit our Website: <http://edifystudycenter.in/>

32(4)

$$\text{Radius of wire} = \frac{10^{-2}}{\sqrt{\pi}}$$

$$\text{Cross sectional area } A = \pi r^2 = 10^{-4} \text{ m}^2$$

$$j = \frac{i}{A} = \left(\frac{V}{R}\right) \cdot \frac{1}{A} = \frac{El}{RA} R = \frac{pl}{A}$$

$$j = \frac{10 \times 10}{10 \times 10^{-4}} = 10^5 \text{ A/m}^2$$

or

$$J = \sigma E$$

$$\frac{E}{P} = \frac{El}{RA} = \frac{10 \times 10 \times \pi}{10 \times 10^{-4} \times \pi} = 10^5 \text{ A/m}^2$$

33(4)

Slope of displacement-time graph is velocity

$$\frac{v_1}{v_2} = \frac{\tan(\theta_1)}{\tan(\theta_2)} = \frac{\tan(30^\circ)}{\tan(45^\circ)} = 1 : \sqrt{3}$$

34(4)

Plane angle and solid angle are dimensionless but have units.

35(4)

First excited state  $\Rightarrow n = 2$

$$T_1 = -13.6 \frac{z^2}{n^2} = -\frac{13.6}{4} \text{ eV}$$

First excited state

$$T_2 = -13.6 \frac{z^2}{n^2} = -\frac{13.6}{9} \text{ eV}$$

$$T_1 : T_2 = \frac{1}{4} : \frac{1}{9} = 9 : 4$$

36(2)

Gravitational constant  $= [M^{-1}L^3T^{-2}]$

Gravitational potential energy  $= [ML^2T^{-2}]$

Gravitational potential  $= [L^2T^{-2}]$

Gravitational intensity  $= [LT^{-2}]$

37(3)

Let the two pendulum are in same phase, after n vibrations of

Visit our Website: <http://edifystudycenter.in/>

**Personal Group Tuition for Classes 1 to 12<sup>th</sup> (All subjects)**

**EDify Study Center (Expertise in School Exams)**

**Select any EDify Study Center Near your house in Vadodara**

**Contact Neelesh Sir (9898966050)**

**FOR GROUP TUTORIALS (Classes 1 to 12<sup>th</sup>)**

**visit any of our center (near your house)**

**AKOTA/VASNA- BHAYLI/ KARELIBAGH**

**EDify Study Center (Expertise in school Exams)**

FOR FURTHER DETAILS CONTACT Neelesh Sir (9898966050) or

Visit our Website: <http://edifystudycenter.in/>

the longer pendulum. In this time the shorter pendulum will complete ( n + 1) vibrations.

$$n \times 2\pi \sqrt{\frac{l_2}{g}} = (n+1)2\pi \sqrt{\frac{l_2}{g}}$$

$$n \times 2\pi \sqrt{\frac{121}{g}} = (n+1)2\pi \sqrt{\frac{100}{g}}$$

$$11n = 10(n+1)$$

$$n = 10$$

38(4)

Area = Length  $\times$  Breadth

$$= 55.3 \times 25$$

$$= 1382.5$$

$$= 14 \times 10^2$$

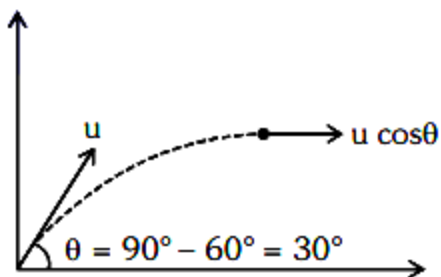
Resultant should have 2 significant figures

39(2)

At highest point only horizontal component of velocity remains

$$\Rightarrow u_x = u \cos \theta$$

$$u_x = u \cos \theta$$



$$U_x = u \cos \theta = 10 \cos 30^\circ \\ = 5\sqrt{3} \text{ ms}^{-1}$$

40(3)

Visit our Website: <http://edifystudycenter.in/>

**Personal Group Tuition for Classes 1 to 12<sup>th</sup> (All subjects)**

**EDify Study Center (Expertise in School Exams)**

**Select any EDify Study Center Near your house in Vadodara**

**Contact Neelesh Sir (9898966050)**



**FOR GROUP TUTORINGS (Classes 1 to 12<sup>th</sup>)**

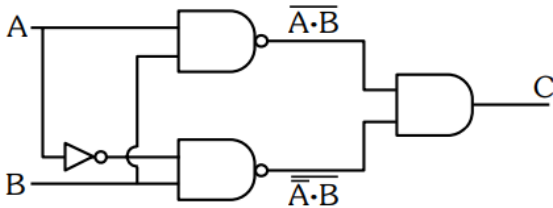
**visit any of our center (near your house)**

**AKOTA/VASNA- BHAYLI/ KARELIBAGH**

**EDify Study Center (Expertise in school Exams)**

FOR FURTHER DETAILS CONTACT Neelesh Sir (9898966050) or

Visit our Website: <http://edifystudycenter.in/>



$$C = \overline{A \cdot B} \cdot \overline{A \cdot B}$$

using De-Morgan Theorem

$$C = \overline{A \cdot B} + \overline{A \cdot B}$$

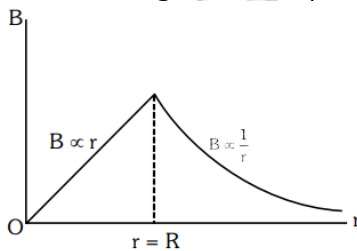
$$C = \overline{B(A + \overline{A})} = \overline{B}$$

Therefore

A	B	C
0	0	1
0	1	0
1	0	1
1	1	0

41(4)

Correct answer is (d) a linearly increasing function of distance  $r$  upto the boundary of the wire and then decreasing one with  $1/r$  dependence for the outside region.



42(2)

$$\omega = 100$$

$$v = \frac{\omega}{2\pi} = \frac{100}{2\pi} = \frac{50}{\pi} \text{ Hz}$$

Resonance frequency

$$v_0 = \frac{1}{2\pi\sqrt{C}} = \frac{1}{2\pi} \sqrt{\frac{1}{10 \times 10 \times 10^{-6}}}$$

Visit our Website: <http://edifystudycenter.in/>

**Personal Group Tuition for Classes 1 to 12<sup>th</sup> (All subjects)**

**EDify Study Center (Expertise in School Exams)**

**Select any EDify Study Center Near your house in Vadodara**

**Contact Neelesh Sir (9898966050)**

**FOR GROUP TUTORIALS (Classes 1 to 12<sup>th</sup>)**

**visit any of our center (near your house)**

**AKOTA/VASNA- BHAYLI/ KARELIBAGH**

**EDify Study Center (Expertise in school Exams)**

FOR FURTHER DETAILS CONTACT Neelesh Sir (9898966050) or

Visit our Website: <http://edifystudycenter.in/>

$$= \frac{50}{\pi} \text{ Hz}$$

43(1)

It is electric dipole at large distance electric field intensity

$$E = \frac{KP}{R^3} \sqrt{1 + 3\cos^2\theta}$$

$$\therefore E \propto \frac{1}{R^3}$$

44(3)

In stretching of a spring shape changes therefore shear modulus is used.  $Y_{\text{copper}} < Y_{\text{steel}}$

45(3)

$$i_{\text{max}} = \frac{E_{\text{max}}}{R} = \frac{NB\omega}{R}$$

$$i_{\text{max}} = \frac{1000 \times 2 \times 10^{-5} \times \pi (10^2) \times 2}{12.56}$$

$$i_{\text{max}} = 1 \text{ A}$$

46(4)

$$V = (\text{no. of moles}) (22.4 \text{ litre})$$

$$= \frac{\text{mass}}{\text{molar mass}} (22.4 \times 10^{-3} \text{ m}^3)$$

$$= \frac{4.5 \times 10^3}{18} \times 22.4 \times 10^{-3} \text{ m}^3$$

$$= 5.6 \text{ m}^3$$

47(3)

Visit our Website: <http://edifystudycenter.in/>

**Personal Group Tuition for Classes 1 to 12<sup>th</sup> (All subjects)**

**EDify Study Center (Expertise in School Exams)**

**Select any EDify Study Center Near your house in Vadodara**

**Contact Neelesh Sir (9898966050)**

**FOR GROUP TUTORINGS (Classes 1 to 12<sup>th</sup>)**

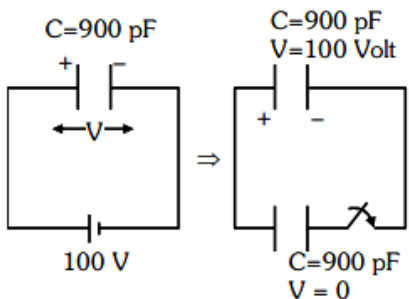
**visit any of our center (near your house)**

**AKOTA/VASNA- BHAYLI/ KARELIBAGH**

**EDify Study Center (Expertise in school Exams)**

FOR FURTHER DETAILS CONTACT Neelesh Sir (9898966050) or

Visit our Website: <http://edifystudycenter.in/>



Common potential

$$V_c = \frac{C_1 V_1 + C_2 V_2}{C_1 + C_2}$$
$$= \frac{C \times 100 + C \times 0}{C + C}$$
$$= 50 \text{ volt}$$

Electrostatic energy stored

$$= 2 \times \frac{1}{2} CV^2 = CV^2$$
$$= 900 \times 10^{-12} \times 50 \times 50$$
$$= 225 \times 10^{-8} \text{ J}$$
$$= 2.25 \times 10^{-6} \text{ J}$$

49(3)

$$\mu = C/u$$

$$u = 1/\mu$$

Critical angle

$$\sin i_c = \mu_R / \mu_D = \frac{u_D}{u_R} = 1.5/2 = 3/4$$

$$i_c = \sin^{-1} \left( \frac{3}{4} \right)$$

$$\sin i_c = \mu_R / \mu_D = \frac{u_D}{u_R}$$

$$i_c = \sin^{-1} \left( \frac{3}{4} \right)$$

50(3)

Nuclear Radius :

$$R = R_0(A)^{1/3}$$

$$\frac{R(165)}{R(64)} = \frac{R_0(165)^{1/3}}{R_0(64)^{1/3}} = 5/4$$

Visit our Website: <http://edifystudycenter.in/>

**Personal Group Tuition for Classes 1 to 12<sup>th</sup> (All subjects)**

**EDify Study Center (Expertise in School Exams)**

**Select any EDify Study Center Near your house in Vadodara**

**Contact Neelesh Sir (9898966050)**

**FOR GROUP TUTIONS (Classes 1 to 12<sup>th</sup>)**

**visit any of our center (near your house)**

**AKOTA/VASNA- BHAYLI/ KARELIBAGH**

**EDify Study Center (Expertise in school Exams)**

FOR FURTHER DETAILS CONTACT Neelesh Sir (9898966050) or

Visit our Website: <http://edifystudycenter.in/>



EDify Study Center

Build your character

Visit our Website: <http://edifystudycenter.in/>

**Personal Group Tuition for Classes 1 to 12<sup>th</sup> (All subjects)**

**EDify Study Center (Expertise in School Exams)**

**Select any EDify Study Center Near your house in Vadodara**

**Contact Neelesh Sir (9898966050)**