

हमारा विश्वास... हर एक विद्यार्थी है स्यास

NEET

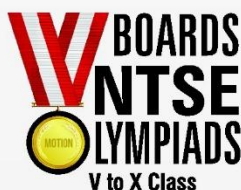
12th Sep. 2021

QUESTION PAPER
WITH
ANSWER



PHYSICS

CODE – P2



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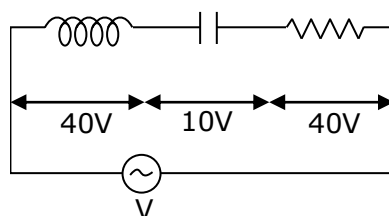
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1. If E and G respectively denote energy and gravitational constant, then $\frac{E}{G}$ has the dimensions of:

- (1) $[M^2] [L^{-2}] [T^{-1}]$ (2) $[M^2] [L^{-1}] [T^0]$
 (3) $[M] [L^{-1}] [T^{-1}]$ (4) $[M] [L^0] [T^0]$

Ans. (2)

2. An inductor of inductance L , a capacitor of capacitance C and a resistor of resistance ' R ' are connected in series to an ac source of potential difference ' V ' volts as shown in figure. Potential difference across L , C and R is 40V, 10V and 40V, respectively. The amplitude of current flowing through LCR series circuit is $10\sqrt{2}$ A. The impedance of the circuit is :



- (1) 5Ω (2) $4\sqrt{2}\Omega$ (3) $5/\sqrt{2}\Omega$ (4) 4Ω

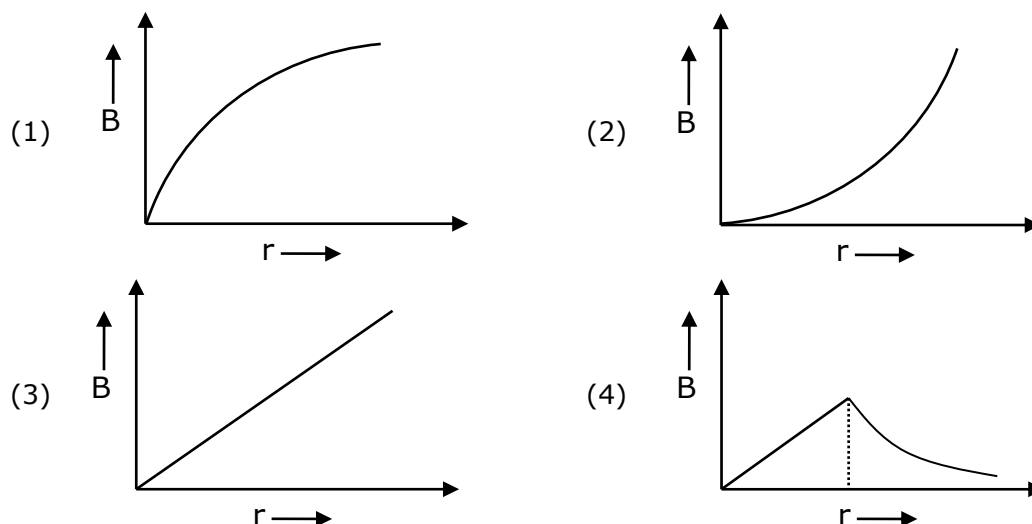
Ans. (1)

3. A body is executing simple harmonic motion with frequency ' n ', the frequency of its potential energy is :

- (1) $4n$ (2) n (3) $2n$ (4) $3n$

Ans. (3)

4. A thick current carrying cable of radius ' R ' carries current ' I ' uniformly distributed across its cross section. The variation of magnetic field $B(r)$ due to the cable with the distance ' r ' from the axis of the cable is represented by:



Ans. (4)



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5. A nucleus with mass number 240 breaks into two fragments each of mass number 120, the binding per nucleon of unfragmented nuclei is 7.6MeV while that of fragments is 8.5MeV. The total gain in the Binding Energy in the process is :

(1) 216MeV (2) 0.9MeV (3) 9.4MeV (4) 804MeV

Ans. (1)

6. A parallel plate capacitor has a uniform electric field \vec{E} in the space between the plates. If the distance between the plates is 'd' and the area of each plate is 'A', the energy stored in the capacitor is: (ϵ_0 = permittivity of free space)

(1) $\frac{E^2 Ad}{\epsilon_0}$ (2) $\frac{1}{2} \epsilon_0 E^2$ (3) $\epsilon_0 EAd$ (4) $\frac{1}{2} \epsilon_0 E^2 Ad$

Ans. (4)

7. The number of photons per second on an average emitted by the source of monochromatic light of wavelength 600nm, when it delivers the power of 3.3×10^{-3} watt will be: ($h = 6.6 \times 10^{-34}$ Js)

(1) 10^{15} (2) 10^{18} (3) 10^{17} (4) 10^{16}

Ans. (4)

8. Polar molecules are the molecules:

(1) having a permanent electric dipole moment
(2) having zero dipole moment
(3) acquire a dipole moment only in the presence of electric field due to displacement of charges
(4) acquire a dipole moment only when magnetic field is absent

Ans. (1)

9. The half life of a radioactive nuclide is 100 hours. The fraction of original activity that will remain after 150 hours would be :

(1) $\frac{2}{3\sqrt{2}}$ (2) $\frac{1}{2}$ (3) $\frac{1}{2\sqrt{2}}$ (4) $\frac{2}{3}$

Ans. (3)

10. A capacitor of capacitance 'C', is connected across an ac source of voltage V, given by $V = V_0 \sin \omega t$

The displacement current between the plates of the capacitor, would then be given by :

(1) $I_d = V_0 \omega C \sin \omega t$
(2) $I_d = V_0 \omega C \cos \omega t$
(3) $I_d = \frac{V_0}{\omega C} \cos \omega t$
(4) $I_d = \frac{V_0}{\omega C} \sin \omega t$

Ans. (2)



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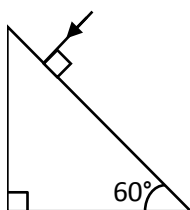
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- 11.** A screw gauge gives the following readings when used to measure the diameter of a wire
Main scale reading : 0 mm
Circular scale reading : 52 divisions
Given that 1 mm on main scale corresponds to 100 divisions on the circular scale. The diameter of the wire from the above data is :
(1) 0.052 cm (2) 0.52 cm (3) 0.026 cm (4) 0.26 cm

Ans. (1)

- 12.** Find the value of the angle of emergence from the prism. Refractive index of the glass is $\sqrt{3}$



- (1) 90° (2) 60° (3) 30° (4) 45°

Ans. (2)

- 13.** In a potentiometer circuit a cell of EMF 1.5 V gives balance point at 36 cm length of wire. If another cell of EMF 2.5 V replaces the first cell, then at what length of the wire, the balance point occurs?

- (1) 62 cm (2) 60 cm (3) 21.6 cm (4) 64 cm

Ans. (2)

- 14.** A particle is released from height S from the surface of the Earth. At a certain height its kinetic energy is three times its potential energy. The height from the surface of earth and the speed of the particle at that instant are respectively -

- (1) $\frac{S}{4}, \sqrt{\frac{3gS}{2}}$ (2) $\frac{S}{4}, \frac{3gS}{2}$ (3) $\frac{S}{4}, \frac{\sqrt{3gS}}{2}$ (4) $\frac{S}{2}, \frac{\sqrt{3gS}}{2}$

Ans. (1)

- 15.** The effective resistance of a parallel connection that consists of four wires of equal length, equal area of cross-section and same material is 0.25Ω . What will be the effective resistance if they are connected in series ?

- (1) 4Ω (2) 0.25Ω (3) 0.5Ω (4) 1Ω

Ans. (1)

- 16.** Water falls from a height of 60m at the rate of 15 kg/s to operate a turbine. The losses due to frictional force are 10% of the input energy. How much power is generated by the turbine? ($g = 10 \text{ m/s}^2$)

- (1) 7.0 kW (2) 10.2 kW (3) 8.1 kW (4) 12.3 kW

Ans. (3)



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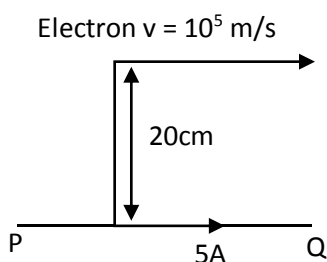
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- 17.** An infinitely long straight conductor carries a current of 5A as shown. An electron is moving with a speed of 10^5 m/s parallel to the conductor. The perpendicular distance between the electron and the conductor is 20cm at an instant. Calculate the magnitude of the force experienced by the electron at that instant.



- (1) $8 \times 10^{-20} \text{ N}$
 (2) $4 \times 10^{-20} \text{ N}$
 (3) $8\pi \times 10^{-20} \text{ N}$
 (4) $4\pi \times 10^{-20} \text{ N}$

Ans. (1)

- 18.** Consider the following statements (A) and (B) and identify the correct answer.
 (A) A Zener diode is connected in reverse bias, when used as a voltage regulator.
 (B) The potential barrier of p-n junction lies between 0.1 V to 0.3 V.
- (1) (A) is incorrect but (B) is correct.
 - (2) (A) and (B) both are correct.
 - (3) (A) and (B) both are incorrect.
 - (4) (A) is correct and (B) is incorrect.

Ans. (4)

- 19.** A spring is stretched by 5 cm by a force 10 N. The time period of the oscillations when a mass of 2 kg is suspended by it is -

- (1) 0.628 s (2) 0.0628 s (3) 6.28 s (4) 3.14 s

Ans. (1)

- 20.** The electron concentration in an n-type semiconductor is the same as hole concentration in a p-type semiconductor. An external field (electric) is applied across each of them. Compare the currents in them.
- (1) No current will flow in p-type, current will only flow in n-type
 - (2) Current in n-type = current in p-type
 - (3) current in p-type > current in n-type
 - (4) current in n-type > current in p-type.

Ans. (4)



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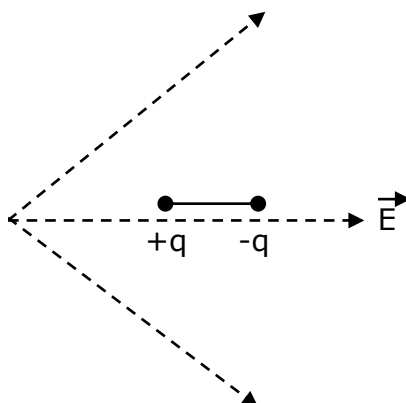
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21. A dipole is placed in an electric field as shown. In which direction will it move?



- (1) towards the right as its potential energy will increase.
- (2) towards the left as its potential energy will increase.
- (3) towards the right as its potential energy will decrease.
- (4) towards the left as its potential energy will decrease.

Ans. (3)

22. A convex lens 'A' of focal length 20 cm and a concave lens 'B' of focal length 5 cm are kept along the same axis with a distance 'd' between them. If a parallel beam of light falling on 'A' leaves 'B' as a parallel beam, then the distance 'd' in cm will be:

- (1) 30
- (2) 25
- (3) 15
- (4) 50

Ans. (3)

23. The escape velocity from the Earth's surface is v . The escape velocity from the surface of another planet having a radius, four times that of Earth and same mass density is:

- (1) $4v$
- (2) v
- (3) $2v$
- (4) $3v$

Ans. (1)

24. An electromagnetic wave of wavelength ' λ ' is incident on a photosensitive surface of negligible work function. If ' m ' mass is of photoelectron emitted from the surface has de-Broglie wavelength λ_d , then:

- (1) $\lambda = \left(\frac{2h}{mc}\right)\lambda_d^2$
- (2) $\lambda = \left(\frac{2m}{hc}\right)\lambda_d^2$
- (3) $\lambda_d = \left(\frac{2mc}{h}\right)\lambda^2$
- (4) $\lambda = \left(\frac{2mc}{h}\right)\lambda_d^2$

Ans. (4)

25. A lens of large focal length and large aperture is best suited as an objective of an astronomical telescope since:

- (1) a large aperture contributes to the quality and visibility of the images.
- (2) a large area of the objective ensures better light gathering power.
- (3) a large aperture provides a better resolution.
- (4) All the above.

Ans. (4)



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- 26.** Two charged spherical conductors of radius R_1 and R_2 are connected by a wire. Then the ratio of surface charge densities of the spheres (σ_1/σ_2) is:

(1) $\frac{R_1^2}{R_2^2}$ (2) $\frac{R_1}{R_2}$ (3) $\frac{R_2}{R_1}$ (4) $\sqrt{\frac{R_1}{R_2}}$

Ans. (3)

- 27.** For a plane electromagnetic wave propagating in x-direction, which one of the following combination gives the correct possible directions for electric field (E) and magnetic field (B) respectively?

(1) $-\hat{j} + \hat{k}, -\hat{j} + \hat{k}$ (2) $\hat{j} + \hat{k}, \hat{j} + \hat{k}$
 (3) $-\hat{j} + \hat{k}, -\hat{j} - \hat{k}$ (4) $\hat{j} + \hat{k}, -\hat{j} - \hat{k}$

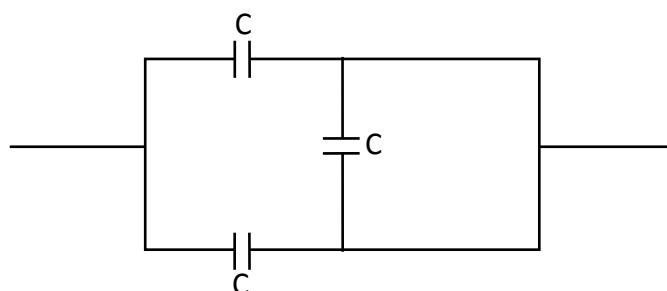
Ans. (3)

- 28.** A cup of coffee cools from 90°C to 80°C in t minutes, when the room temperature is 20°C . The time taken by a similar cup of coffee to cool from 80°C to 60°C at a room temperature same at 20°C is:

(1) $\frac{5}{13}t$ (2) $\frac{13}{10}t$ (3) $\frac{13}{5}t$ (4) $\frac{10}{13}t$

Ans. (3)

- 29.** The equivalent capacitance of the combination shown in the figure is:



(1) $3C/2$ (2) $3C$ (3) $2C$ (4) $C/2$

Ans. (3)

- 30.** If force [F], acceleration [A] and time [T] are chosen as the fundamental physical quantities. Find the dimensions of energy.

(1) $[F] [A^{-1}] [T]$
 (2) $[F] [A] [T]$
 (3) $[F] [A] [T^2]$
 (4) $[F] [A] [T^{-1}]$

Ans. (3)



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- 31.** A small block slides down on a smooth inclined plane, starting from rest at time $t = 0$. Let S_n be the distance travelled by the block in the interval $t = n - 1$ to $t = n$. Then the ratio $\frac{S_n}{S_{n+1}}$ is :

- (1) $\frac{2n}{2n-1}$ (2) $\frac{2n-1}{2n}$ (3) $\frac{2n-1}{2n+1}$ (4) $\frac{2n+1}{2n-1}$

Ans. (3)

- 32.** The velocity of a small ball of mass M and density d , when dropped in a container filled with glycerine becomes constant after some time. If the density of glycerine is $\frac{d}{2}$, then the viscous force acting on the ball will be :

- (1) $2Mg$ (2) $\frac{Mg}{2}$ (3) Mg (4) $\frac{3}{2}Mg$

Ans. (2)

- 33.** Column-I gives certain physical terms associated with flow of current through a metallic conductor. Column-II gives some mathematical relations involving electrical quantities. Match column-I and column-II with appropriate relations.

Column-I

Column-II

- | | |
|----------------------------|--------------------------|
| (A) Drift Velocity | (P) $\frac{m}{ne^2\rho}$ |
| (B) Electrical Resistivity | (Q) nev_d |
| (C) Relaxation Period | (R) $\frac{eE}{m}\tau$ |
| (D) Current Density | (S) $\frac{E}{J}$ |

- (1) (A)-(R); (B)-(Q); (C)-(S); (D)-(P)
 (2) (A)-(R); (B)-(S); (C)-(P); (D)-(Q)
 (3) (A)-(R); (B)-(S); (C)-(Q); (D)-(P)
 (4) (A)-(R); (B)-(P); (C)-(S); (D)-(Q)

Ans. (2)

- 34.** A radioactive nucleus A_ZX undergoes spontaneous decay in the sequence ${}^A_ZX \rightarrow {}^{A-1}_{Z-1}B \rightarrow {}^{A-3}_{Z-3}C \rightarrow {}^{A-2}_{Z-2}D$, Where Z is the atomic number of element X . The possible decay particles in the sequence are:

- (1) β^- , α , β^+
 (2) α , β^- , β^+
 (3) α , β^+ , β^-
 (4) β^+ , α , β^-

Ans. (4)



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35. Match **Column-I** and **Column-II** and choose the correct match from the given choices.

Column-I

- (A) Root mean square speed of gas molecules
- (B) Pressure exerted by ideal gas
- (C) Average kinetic energy of a molecule
- (D) Total internal energy of 1mole of a diatomic gas

Column-II

- (P) $\frac{1}{3}nm\bar{v}^2$
- (Q) $\sqrt{\frac{3RT}{M}}$
- (R) $\frac{5}{2}RT$
- (S) $\frac{3}{2}k_B T$

- (1) (A) – (R), (B) – (Q), (C) – (P), (D) – (S)
- (2) (A) – (R), (B) – (P), (C) – (S), (D) – (Q)
- (3) (A) – (Q), (B) – (R), (C) – (S), (D) – (P)
- (4) (A) – (Q), (B) – (P), (C) – (S), (D) – (R)

Ans. (4)

Section - B

36. In the product

$$\vec{F} = q(\vec{v} \times \vec{B})$$

$$= q\vec{v} \times (B_1\hat{i} + B_2\hat{j} + B_3\hat{k})$$

For $q = 1$ and $\vec{v} = 2\hat{i} + 4\hat{j} + 6\hat{k}$ and $\vec{F} = 4\hat{i} - 20\hat{j} + 12\hat{k}$

What will be the complete expression for \vec{B} ?

- (1) $6\hat{i} + 6\hat{j} - 8\hat{k}$
- (2) $-8\hat{i} - 8\hat{j} - 6\hat{k}$
- (3) $-6\hat{i} - 6\hat{j} - 8\hat{k}$
- (4) $8\hat{i} + 8\hat{j} - 6\hat{k}$

Ans. (3)

37. From a circular ring of mass 'M' and radius 'R' an arc corresponding to a 90° sector is removed. The moment of inertia of the remaining part of the ring about an axis passing through the center of the ring and perpendicular to the plane of the ring is 'K' times ' MR^2 '. Then the value of 'K' is:

- (1) $\frac{1}{8}$
- (2) $\frac{3}{4}$
- (3) $\frac{7}{8}$
- (4) $\frac{1}{4}$

Ans. (2)



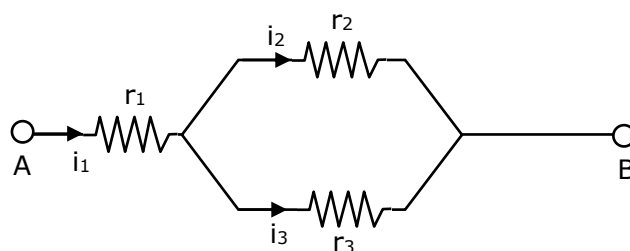
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- 38.** Three resistors having resistances r_1 , r_2 and r_3 are connected as shown in the given circuit. The ratio $\frac{i_3}{i_1}$ of currents in terms of resistances used in the circuit is:



- (1) $\frac{r_2}{r_1 + r_3}$ (2) $\frac{r_1}{r_2 + r_3}$ (3) $\frac{r_2}{r_2 + r_3}$ (4) $\frac{r_1}{r_1 + r_2}$

Ans. (3)

- 39.** A ball of mass 0.15 kg is dropped from a height 10m, strikes the ground and rebounds to the same height. The magnitude of impulse imparted to the ball is ($g = 10 \text{ m/s}^2$) nearly:

- (1) 1.4 kg m/s (2) 0 kg m/s
(3) 4.2 kg m/s (4) 2.1 kg m/s

Ans. (3)

- 40.** A step down transformer connected to an ac mains supply of 220 V is made to operate at 11 V, 44W lamp. Ignoring power losses in the transformer, what is the current in the primary circuit.

- (1) 4A (2) 0.2A (3) 0.4 A (4) 2A

Ans. (2)

- 41.** A uniform conducting wire of length $12a$ and resistance ' R ' is wound up as a current carrying coil in the shape of,

- (i) an equilateral triangle of side ' a '
(ii) A square of side ' a '

The magnetic dipole moments of the coil in each case respectively are:

- (1) $4Ia^2$ and $3Ia^2$ (2) $\sqrt{3}Ia^2$ and $3Ia^2$
(3) $3Ia^2$ and Ia^2 (4) $3Ia^2$ and $4Ia^2$

Ans. (2)

- 42.** A particle of mass ' m ' is projected with a velocity $v = kV_e$ ($k < 1$) from the surface of the earth. (V_e = escape velocity)

The maximum height above the surface reached by the particle is:

- (1) $\frac{Rk^2}{1 - k^2}$ (2) $R\left(\frac{k}{1 - k^2}\right)^2$ (3) $R\left(\frac{k}{1 + k^2}\right)^2$ (4) $\frac{R^2k}{1 + k}$

Ans. (1)



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- 43.** A series LCR circuit containing 5.0 H inductor, 80 μ F capacitor and 40 Ω resistor is connected to 230V variable frequency ac source. The angular frequencies of the source at which power transferred to the circuit is half the power at the resonant angular frequency are likely to be:

(1) 42 rad/s and 58 rad/s (2) 25 rad/s and 75 rad/s
(3) 50 rad/s and 25 rad/s (4) 46 rad/s and 54 rad/s

Ans. (4)

- 44.** A particle moving in a circle of radius R with a uniform speed takes a time T to complete one revolution. If this particle were projected with the same speed at an angle ' θ ' to the horizontal, the maximum height attained by it equals 4R. The angle of projection, θ , is then given by :

(1) $\theta = \sin^{-1} \left(\frac{2gT^2}{\pi^2 R} \right)^{1/2}$ (2) $\theta = \cos^{-1} \left(\frac{gT^2}{\pi^2 R} \right)^{1/2}$
(3) $\theta = \cos^{-1} \left(\frac{\pi^2 R}{gT^2} \right)^{1/2}$ (4) $\theta = \sin^{-1} \left(\frac{\pi^2 R}{gT^2} \right)^{1/2}$

Ans. (1)

- 45.** Two conducting circular loops of radii R_1 and R_2 are placed in the same plane with their centres coinciding. If $R_1 \gg R_2$, the mutual inductance M between them will be directly proportional to:

(1) $\frac{R_2^2}{R_1}$ (2) $\frac{R_1}{R_2}$ (3) $\frac{R_2}{R_1}$ (4) $\frac{R_1^2}{R_2}$

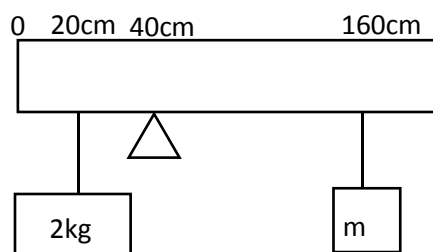
Ans. (1)

- 46.** Twenty seven drops of same size are charged at 220 V each. They combine to form a bigger drop. Calculate the potential of the bigger drop.

(1) 1980 V (2) 660 V (3) 1320 V (4) 1520 V

Ans. (1)

- 47.** A uniform rod of length 200 cm and mass 500 g is balanced on a wedge placed at 40 cm mark. A mass of 2 kg is suspended from the rod at 20 cm and another unknown mass ' m ' is suspended from the rod at 160 cm mark as shown in the figure. Find the value of ' m ' such that the rod is in equilibrium. ($g = 10 \text{ m/s}^2$)



(1) $\frac{1}{12} \text{ kg}$ (2) $\frac{1}{2} \text{ kg}$ (3) $\frac{1}{3} \text{ kg}$ (4) $\frac{1}{6} \text{ kg}$

Ans. (1)



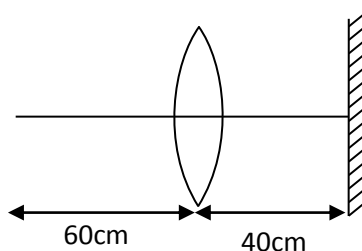
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- 48.** A point object is placed at a distance of 60 cm from a convex lens of focal length 30 cm. If a plane mirror were put perpendicular to the principal axis of the lens and at a distance of 40 cm from it, the final image would be formed at a distance of –



- (1) 20 cm from the plane mirror, it would be a virtual image.
- (2) 20 cm from the lens, it would be a real image
- (3) 30 cm from the lens, it would be a real image
- (4) 30 cm from the plane mirror, it would be a virtual image.

Ans. (1)

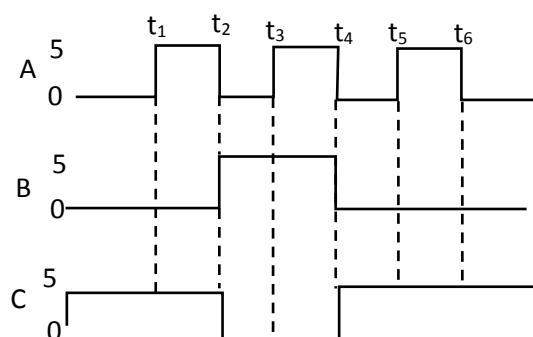
- 49.** A car starts from rest and accelerates at 5 m/s^2 . At $t=4\text{ s}$, a ball is dropped out of a window by a person sitting in the car. What is the velocity and acceleration of the ball at $t=6\text{ s}$?

(Take $g = 10\text{ m/s}^2$)

- (1) $20\sqrt{2}\text{ m/s}$, 10 m/s^2
- (2) 20 m/s , 5 m/s^2
- (3) 20 m/s , 0
- (4) $20\sqrt{2}\text{ m/s}$, 0

Ans. (1)

- 50.** For the given circuit, the input digital signals are applied at the terminals A, B and C. What would be the output at the terminal y?

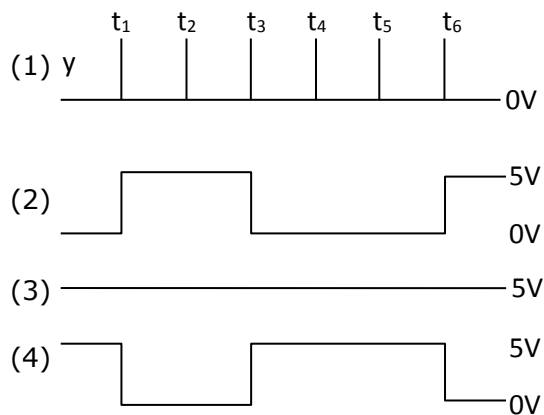
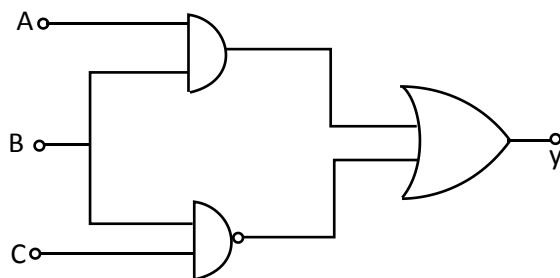


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Ans. (3)



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