

General Instructions: Same as Mock Test Paper 1

PHYSICS

Section A

- The ratio of the dimension of Planck's constant and that of the moment of inertia is the dimension of
(a) time. (b) frequency.
(c) angular momentum. (d) velocity.
- In an unbiased p-n junction, holes diffuse from the p-region to n-region because:
(a) free electrons in the n-region attract them.
(b) they move across the junction by the potential difference.
(c) hole concentration in p-region is more as compared to n-region.
(d) All of the above.
- An N-P-N transistor conducts when:
(a) both collector and emitter are negative with respect to the base.
(b) both collector and emitter are positive with respect to the base.
(c) collector is positive and emitter is negative with respect to the base.
(d) collector is positive and emitter is at same potential as the base.
- A block of mass 50 kg slides over a horizontal distance of 1 m. If the coefficient of friction between their surfaces is 0.2, then work done against friction is:
(a) 98 J (b) 72 J (c) 50 J (d) 34 J
- If n_1 , n_2 and n_3 are the fundamental frequencies of three segments into which a string is divided, then the original fundamental frequency n of the string is given by:
(a) $\frac{1}{n} = \frac{1}{n_1} + \frac{1}{n_2} + \frac{1}{n_3}$ (b) $\frac{1}{\sqrt{n_1}} + \frac{1}{\sqrt{n_2}} + \frac{1}{\sqrt{n_3}}$
(c) $\sqrt{n} = \sqrt{n_1} + \sqrt{n_2} + \sqrt{n_3}$ (d) $n = n_1 + n_2 + n_3$
- In Young's double slit experiment, the slits are 2 mm apart and are illuminated by photons of two wavelengths $\lambda_1 = 12000 \text{ \AA}$ and $\lambda_2 = 10000 \text{ \AA}$. At what minimum distance from the common central bright fringe on the screen, 2 m from the slit will a bright fringe from one interference pattern coincide with a bright fringe from the other?
(a) 3 mm (b) 8 mm (c) 6 mm (d) 4 mm
- A mass m moves in a circle on a smooth horizontal plane with velocity v_1 at a radius R_1 . The mass is attached to a string which passes through a smooth hole in the plane as shown. The tension in the string is increased gradually and finally m moves in a circle of radius $R_2/2$. The final value of the kinetic energy is:



- (a) $2mv_1^2$ (b) $\frac{1}{2} mv_1^2$ (c) mv_1^2 (d) $\frac{1}{4} mv_1^2$
- The displacement of a particle varies with time according to the relation $y = a \sin \omega t + b \cos \omega t$
(a) The motion is oscillatory but not SHM
(b) The motion is SHM with amplitude $a + b$
(c) The motion is SHM with amplitude $a^2 + b^2$
(d) The motion is SHM with amplitude $\sqrt{a^2 + b^2}$
- A beam of light of $\lambda = 600 \text{ nm}$ from a distant source falls on a single slit 1 mm wide and the resulting diffraction pattern is observed on a screen 2 m away. The distance between first dark fringes on either side of the central bright fringe is:
(a) 1.2 cm (b) 1.2 mm (c) 2.4 cm (d) 2.4 mm
- An ideal diatomic gas occupies a volume V_1 at a pressure P_1 . The gas undergoes a process in which the pressure is proportional to the volume. At the end of process the rms speed of the gas molecules has doubled from its initial value then the heat supplied to the gas in the given process is:
(a) $7 P_1 V_1$ (b) $8 P_1 V_1$ (c) $9 P_1 V_1$ (d) $10 P_1 V_1$
- Moment of inertia of a uniform circular disc about a diameter is I . Its moment of inertia about an axis perpendicular to its plane and passing through a point on its rim will be:
(a) $5I$ (b) $3I$ (c) $6I$ (d) $4I$
- The distance travelled by a particle starting from rest and moving with an acceleration $\frac{4}{3} \text{ m/s}^2$ in the third second is:
(a) 6 m (b) 4 m (c) $\frac{10}{3} \text{ m}$ (d) $\frac{19}{3} \text{ m}$
- The two nearest harmonics of a tube closed at one end and open at other end are 220 Hz and 360 Hz. What is the fundamental frequency of the system?
(a) 20 Hz (b) 30 Hz (c) 40 Hz (d) 10 Hz
- The de Broglie wavelength of a neutron of mass m in thermal equilibrium with heavy water at a temperature T (Kelvin) is:
(a) $\frac{h}{\sqrt{2mkT}}$ (b) $\frac{2h}{\sqrt{mkT}}$ (c) $\frac{2h}{\sqrt{mkT}}$ (d) $\frac{h}{\sqrt{mkT}}$
- An electric dipole is placed at an angle of 30° with an electric field of intensity $2.0 \times 10^4 \text{ N/C}$. It experiences a torque equal to 4 Nm. The charge on the dipole, if the dipole length is 2 cm, is:
(a) 8 mC (b) 2 mC (c) 5 mC (d) 7 mC
- Three liquids of densities ρ_1 , ρ_2 and ρ_3 (with $\rho_1 > \rho_2 > \rho_3$) having the same value of surface tension T , rise to the same height in three identical capillaries. The angles of contact θ_1 , θ_2 and θ_3 obey:
(a) $\pi/2 > \theta_1 > \theta_2 > \theta_3 \geq 0$ (b) $0 \leq \theta_1 < \theta_2 < \theta_3 < \pi/2$
(c) $\theta_1 = \theta_2 = \theta_3 = \pi$ (d) $\pi > \theta_1 > \theta_2 > \theta_3 > \pi/2$

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