

PART -A (PHYSICS)

1. A body is projected at $t = 0$ with a velocity 10 ms^{-1} at an angle of 60° with the horizontal. The radius of curvature of its trajectory at $t = 1 \text{ s}$ is R . Neglecting air resistance and taking acceleration due to gravity $g = 10 \text{ ms}^{-2}$, the radius of R is:
 (A) 10.3 m (B) 2.8 m
 (C) 2.5 m (D) 5.1 m
2. A hydrogen atom, initially in the ground state is excited by absorbing a photon of wavelength $980 \text{ \AA}$. The radius of the atom in the excited state, in terms of Bohr radius a_0 , will be:
 ($hc = 12500 \text{ eV} \cdot \text{\AA}$)
 (A) $25a_0$ (B) $9a_0$
 (C) $16a_0$ (D) $4a_0$
3. In the given circuit the current through Zener Diode is close to:
 (A) 0.0 mA
 (B) 6.7 mA
 (C) 4.0 mA
 (D) 6.0 mA


4. There are two long co – axial solenoids of same length l . The inner and outer coils have radii r_1 and r_2 and number of turns per unit length n_1 and n_2 respectively. The ratio of mutual inductance to the self – inductance of the inner – coil is:
 (A) $\frac{n_1}{n_2}$ (B) $\frac{n_1}{n_2} \cdot \frac{r_1}{r_2}$
 (C) $\frac{n_1}{n_2} \cdot \frac{r_2^2}{r_1^2}$ (D) $\frac{n_1}{n_2}$
5. A particle undergoing simple harmonic motion has time dependent displacement given by $x(t) = A \sin \frac{\pi t}{90}$. The ratio of kinetic to potential energy of the particle at $t = 210 \text{ s}$ will be
 (A) 1/9 (B) 1
 (C) 2 (D) 3
6. A satellite is revolving in a circular orbit at a height h from the earth surface, such that $h \ll R$ where R is the radius of the earth. Assuming that the effect of earth's atmosphere can be neglected the minimum increase in the speed required so that the satellite could escape from the gravitational field of earth is:
 (A) $\sqrt{2gR}$ (B) $\sqrt{gR}$
 (C) $\sqrt{\frac{gR}{2}}$ (D) $\sqrt{gR}(\sqrt{2} - 1)$

Jee Main Question Paper

Judd E. Hollander



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