

TEST PAPER OF JEE(MAIN) EXAMINATION – 2019
(Held On Friday 11th JANUARY, 2019) TIME : 9 : 30 AM To 12 : 30 PM
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 value of R is :

- (1) 2.5 m (2) 10.3 m
(3) 2.8 m (4) 5.1 m

Ans. (3)



$$v_x = 10 \cos 60^\circ = 5 \text{ m/s}$$

$$v_y = 10 \sin 60^\circ = 5\sqrt{3} \text{ m/s}$$

velocity after $t = 1 \text{ sec}$,

$$v_x = 5 \text{ m/s}$$

$$v_y = \left[(5\sqrt{3} - 10) \right] \text{ m/s} = 10 - 5\sqrt{3}$$

$$a_n = \frac{v^2}{R} \Rightarrow R = \frac{v_x^2 + v_y^2}{a_n} = \frac{25 + 100 + 75 - 100\sqrt{3}}{10 \cos \theta}$$

$$\tan \theta = \frac{10 - 5\sqrt{3}}{5} = 2 - \sqrt{3} \Rightarrow \theta = 15^\circ$$

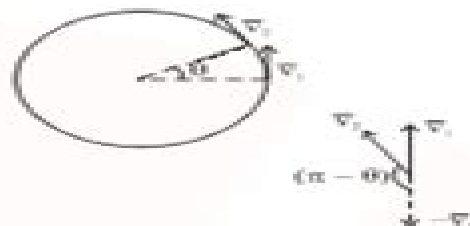
$$R = \frac{100(2 - \sqrt{3})}{10 \cos 15^\circ} = 2.8 \text{ m}$$

2. A particle is moving along a circular path with a constant speed of 10 ms^{-1} . What is the magnitude of the change in velocity of the particle, when it moves through an angle of 60° around the centre of the circle?

- (1) zero (2) 10 m/s
(3) $10\sqrt{3} \text{ m/s}$ (4) $10\sqrt{2} \text{ m/s}$

Ans. (2)

Sol.



$$\begin{aligned} |\Delta \vec{v}| &= \sqrt{v_1^2 + v_2^2 + 2v_1v_2 \cos(\pi - \theta)} \\ &= 2v \sin \frac{\theta}{2} \quad \text{since } [|\vec{v}_1| = |\vec{v}_2|] \\ &= (2 \times 10) \times \sin(30^\circ) \\ &= 10 \text{ m/s} \end{aligned}$$

3. 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 :
($h_c = 12500 \text{ eV} \cdot \text{\AA}$)

- (1) $9a_0$ (2) $25a_0$ (3) $4a_0$ (4) $16a_0$

Ans. (4)

Sol. Energy of photon = $\frac{12500}{980} = 12.75 \text{ eV}$

$\therefore$ Electron will excite to $n = 4$

Since $R \propto n^2$

$\therefore$ Radius of atom will be $16a_0$

4. A liquid of density ρ is coming out of a hose pipe of radius a with horizontal speed v and hits a mesh. 50% of the liquid passes through the mesh unaffected. 25% loses all of its momentum and 25% comes back with the same speed. The resultant pressure on the mesh will be :

- (1) ρv^2 (2) $\frac{3}{4} \rho v^2$
(3) $\frac{1}{2} \rho v^2$ (4) $\frac{1}{4} \rho v^2$

Ans. (2)

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