

**TEST PAPER OF JEE(MAIN) EXAMINATION – 2019**  
(Held On Friday 11<sup>th</sup> JANUARY, 2019) TIME : 9 : 30 AM To 12 : 30 PM  
**PHYSICS**

1. A body is projected at  $t = 0$  with a velocity  $10 \text{ ms}^{-1}$  at an angle of  $60^\circ$  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  $t = 1 \text{ sec}$ .

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

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

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

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

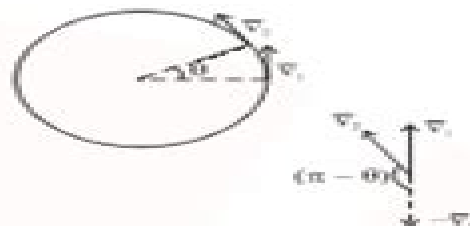
$$R = \frac{100(2 - \sqrt{3})}{10 \cos 15^\circ} = 2.8 \text{ m}$$

2. A particle is moving along a circular path with a constant speed of  $10 \text{ ms}^{-1}$ . What is the magnitude of the change in velocity of the particle, when it moves through an angle of  $60^\circ$  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  $\rho$  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)  $\rho v^2$  (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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**Dr K G Ojha & Dr Sunita**



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## **Table of Contents Iit Jee Previous Year Question Papers With Solutions**

1. Understanding the eBook Iit Jee Previous Year Question Papers With Solutions
  - The Rise of Digital Reading Iit Jee Previous Year Question Papers With Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Iit Jee Previous Year Question Papers With Solutions
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Iit Jee Previous Year Question Papers With Solutions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Iit Jee Previous Year Question Papers With Solutions
  - Personalized Recommendations
  - Iit Jee Previous Year Question Papers With Solutions User Reviews and Ratings



- Iit Jee Previous Year Question Papers With Solutions and Bestseller Lists
- 5. Accessing Iit Jee Previous Year Question Papers With Solutions Free and Paid eBooks
  - Iit Jee Previous Year Question Papers With Solutions Public Domain eBooks
  - Iit Jee Previous Year Question Papers With Solutions eBook Subscription Services
  - Iit Jee Previous Year Question Papers With Solutions Budget-Friendly Options
- 6. Navigating Iit Jee Previous Year Question Papers With Solutions eBook Formats
  - ePub, PDF, MOBI, and More
  - Iit Jee Previous Year Question Papers With Solutions Compatibility with Devices
  - Iit Jee Previous Year Question Papers With Solutions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Iit Jee Previous Year Question Papers With Solutions
  - Highlighting and Note-Taking Iit Jee Previous Year Question Papers With Solutions
  - Interactive Elements Iit Jee Previous Year Question Papers With Solutions
- 8. Staying Engaged with Iit Jee Previous Year Question Papers With Solutions
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Iit Jee Previous Year Question Papers With Solutions
- 9. Balancing eBooks and Physical Books Iit Jee Previous Year Question Papers With Solutions
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Iit Jee Previous Year Question Papers With Solutions
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Iit Jee Previous Year Question Papers With Solutions
  - Setting Reading Goals Iit Jee Previous Year Question Papers With Solutions
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Iit Jee Previous Year Question Papers With Solutions
  - Fact-Checking eBook Content of Iit Jee Previous Year Question Papers With Solutions
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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