

## JEE Main Sample Test – IV

### Section – I – Physics

**Question 1:** Distance of the centre of mass of a solid uniform cone from its vertex is  $z_0$ . If the radius of its base is  $R$  and its height is  $h$  then  $z_0$  is equal to:

**Options:**

- (a)  $\frac{5h}{8}$
- (b)  $\frac{3h^2}{8R}$
- (c)  $\frac{h^2}{4R}$
- (d)  $\frac{3h}{4}$

**Question 2:** A red LED emits light at 0.1 watt uniformly around it. The amplitude of the electric field of the light at a distance of 1 m from the diode is:

**Options:**

- (a) 5.48 V/m
- (b) 7.75 V/m
- (c) 1.73 V/m
- (d) 2.45 V/m

**Question 3:** A pendulum made of uniform wire of cross sectional area  $A$  has time period  $T$ . When an addition mass  $M$  is added to its bob, the time period changes to  $T_M$ . If the Young's modulus of the material of the wire is  $Y$  then  $\frac{1}{Y}$  is equal to:

( $g$  = gravitational acceleration)

**Options:**

- (a)  $\left[1 - \left(\frac{T_M}{T}\right)^2\right] \frac{A}{Mg}$

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**Anthony S. Fauci**



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## **Table of Contents Jee Question Paper With Solution**

1. Understanding the eBook Jee Question Paper With Solution
  - The Rise of Digital Reading Jee Question Paper With Solution
  - Advantages of eBooks Over Traditional Books
2. Identifying Jee Question Paper With Solution
  - 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 Jee Question Paper With Solution
  - User-Friendly Interface
4. Exploring eBook Recommendations from Jee Question Paper With Solution
  - Personalized Recommendations

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

- 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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