

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

# Jee Question Paper With Solution

**Xiaolong Qi**



## **Jee Question Paper With Solution:**

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Questions for JEE Main as per NTA latest pattern with answer and solutions to majority of questions Solutions to the questions are not just sketch rather have been written in such a manner that the students will be able to understand the application of concept and can answer some other related questions too We firmly believe that the book in this form will definitely help a genuine hardworking student We have tried our best to keep errors out of this book Comment and criticism from readers will be highly appreciated and incorporated in the subsequent edition We wish to utilize the opportunity to place on record our special thanks to all team members of Content Development for their efforts to make this wonderful book Best Wishes Career Point Scientific American ,1872 *Official Index to the Times* ,1919 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Times educational supplement Scotland and the Times higher education supplement **The Official Index to The Times** ,1919 **Quarry and Surveyors' and Contractors' Journal** ,1924 ASME Technical Papers ,1979 *The Surveyor & Municipal & County Engineer* ,1923 **Outing** ,1922 *Outing, an Illustrated Monthly Magazine of Recreation (subtitle Varies)* ,1922 **Outing Magazine** ,1922 *Nature* Sir Norman Lockyer,1921 **Druggists Circular** ,1906 *American Druggists' Circular and Chemical Gazette* ,1892

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