

# 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  $\frac{1}{V}$  is equal to:

(g = gravitational acceleration)

Options:

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

# **Jee Question Paper 21**

Jeannette Leonard Gilder, Joseph Benson Gilder **Jee Question Paper 21:** 

Unveiling the Power of Verbal Art: An Psychological Sojourn through Jee Question Paper 21

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