

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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