

## 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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