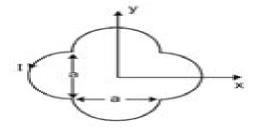


IIT JEE Sample Paper - 1 आईआईटी जेईई प्रश्न पत्र - 1

1. Question

A loop carrying current I lies in the x-y plane as shown in the figure, the unit vector \vec{K} is coming out of the plane of the paper, the magnetic moment of the current loop is:



Possible Answer

$$\Box = a^2 \vec{K}$$

$$\mathbb{C} = \left(\frac{\pi}{2} + 1\right)_{a^2 K^2}$$

$$-\left(\frac{\pi}{2}+1\right)_{a^2\vec{K}}$$

2. Question

A thin uniform cylindrical shell, closed at both ends, is partially filled with water. It is floating vertically in water in half-submerged state. If P_{ϵ} is the relative density of the material of the shell with respect to water, then the correct statement is that the shell is

Possible Answer

- more than half filled if Peis less than 0.5
- more than half filled if Peis less than 1.0
- □ half filled if Pcis less than 0.5
- less than half filled if Peis less than 0.5

3. Question

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