

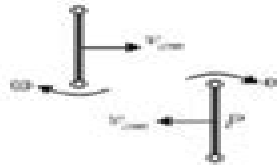
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PHYSICS

1.(C)



Before collision

After collision
(due to symmetry)

$$V_{sep} = e V_{app}$$

$$\left(\frac{\omega l}{2} - V_{cm} \right) \times 2 = 2u$$

$$\Rightarrow \omega l - 2V_{cm} = 2u \quad \dots (i)$$

Conserving angular momentum about the centre of mass of the rod B (taking clockwise positive)

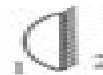
$$\left(mu \times \frac{l}{2} + mu \times \frac{3l}{2} \right) + \left(mu \times \frac{l}{2} - mu \times \frac{l}{2} \right) = \left(\frac{ml^2}{4} \right) \times 2 \times \omega + \left[\left(2 \times \frac{ml^2}{4} \times \omega \right) + 2m \times V_{cm} \times l \right]$$

$$\Rightarrow 2mul = ml^2\omega + 2mV_{cm}l \quad \Rightarrow 2u = \omega l + 2V_{cm} \quad \dots (ii)$$

From (i) and (ii), we get $\omega = \frac{2u}{l}$

$$2.(C) \quad \text{Using the equation, } \frac{1}{F} = \frac{2(\mu_2 / \mu_1)}{R_2} - 2 \frac{(\mu_2 / \mu_1 - 1)}{R_1}$$

$$\text{We get } \frac{1}{-10} = \frac{2(1.5)}{\infty} - \frac{2(1.5 - 1)}{R_1}, \quad \left(\text{use } F = \frac{R}{2} \right)$$

Solving, we get $R_1 = 10\text{cm}$.

$$3.(B) \quad 1SD = \frac{10}{200} \text{ cm} = 0.050 \text{ cm}; \quad 1VD = \frac{1.2}{25} \text{ cm} = 0.048 \text{ cm}$$

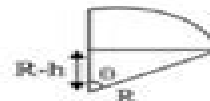
$$LC \text{ of Instrument} = 0.050 - 0.048 = 0.002 \text{ cm}$$

4.(C) Condition for leaving contact

$$mg \left(\frac{R-h}{R} \right) = \frac{mv^2}{R} \quad \dots (i)$$

$$\text{From work-energy theorem } 2mgh = \frac{1}{2}mv^2$$

$$mv^2 = 4mgh \quad \dots (ii)$$

From (i) and (ii) we get $h = \frac{R}{5} = 40\text{cm}$ 

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