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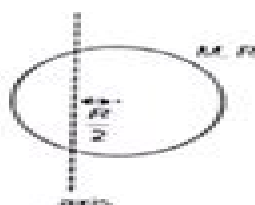
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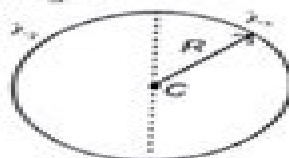
Choose the correct answer :

SECTION-A

1. A solid sphere has mass M and radius R . Its moment of inertia about an axis which is passing through a distance $\frac{R}{2}$ from its centre as shown in the figure is



- (1) $\frac{13}{10} MR^2$ (2) $\frac{13}{20} MR^2$
 (3) $\frac{2}{7} MR^2$ (4) $\frac{23}{20} MR^2$
2. A ring of radius R is charged such that half of the ring has λ_1 linear charge density and other half has λ_2 linear charge density. The net potential at the centre of the ring is



- (1) $k(\lambda_1 - \lambda_2)$ (2) $k(\lambda_1 + \lambda_2)$
 (3) $k(\lambda_1 + \lambda_2)$ (4) $kR(\lambda_1 + \lambda_2)$

3. The maximum error in the measurement of resistance and current flowing through a resistor are 3% and 1% respectively. The maximum percentage error in the power dissipated through the resistor will be

- (1) 5% (2) 3%
 (3) 7% (4) 4%

4. Two projectiles are projected at angles 30° and 60° with the horizontal with the same speed. Ratio of the horizontal range of the two projectiles is

- (1) 1 : 2 (2) 3 : 1
 (3) 1 : 1 (4) $1 : \sqrt{2}$

5. A stationary bomb suddenly explodes and splits into two unequal fragments of masses m_1 and m_2 . Calculate the ratio of their de Broglie wavelengths.

- (1) 1 : 1 (2) 2 : 1
 (3) 4 : 5 (4) 2 : 3

6. The incorrect statement regarding a particle executing uniform circular motion is

- (1) Speed of particle remains constant
 (2) Velocity of particle remains constant
 (3) Acceleration vector is perpendicular to the velocity vector
 (4) Acceleration is variable

Space for Rough Work

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