

CHAPTER- ROTATIONAL MOTION

201. A particle moves in a circular path with decreasing speed. Choose the correct statement.
 (a) Angular momentum remains constant
 (b) Acceleration (\vec{a}) is towards the center
 (c) Particle moves in a spiral path with decreasing radius
 (d) The direction of angular momentum remains constant
202. A tube of length L is filled completely with an incompressible liquid of mass M and closed at both the ends. The tube is then rotated in a horizontal plane about one of its ends with a uniform angular velocity ω . The force exerted by the liquid at the other end is:
 (a) $\frac{M\omega^2 L}{2}$ (b) $M\omega^2 L$ (c) $\frac{M\omega^2 L}{4}$ (d) $\frac{M\omega^2 L^2}{2}$
203. A mass m is moving with a constant velocity along a line parallel to the x -axis, away from the origin. Its angular momentum with respect to the origin :
 (a) is zero (b) remains constant (c) goes on increasing (d) goes on decreasing
204. A smooth sphere A is moving on a frictionless horizontal plane with angular velocity ω and centre of mass velocity v . It collides elastically and head on with an identical sphere B at rest. Neglect friction everywhere. After the collision their angular speeds are ω_1 and ω_2 respectively. Then :
 (a) $\omega_1 < \omega_2$ (b) $\omega_1 = \omega_2$ (c) $\omega_1 = \omega$ (d) $\omega_2 = \omega$
205. Consider the following two statements
 (A) Linear momentum of the system of particles is zero
 (B) Kinetic energy of system of particles is zero
 (a) A implies B and B implies A
 (b) A does not imply B and B does not imply A
 (c) A implies B but B does not imply A
 (d) B implies A but A does not imply B
206. Torque per unit moment of inertia is equivalent to
 (a) angular velocity (b) angular acceleration
 (c) radius of gyration (d) inertia
207. A spherical shell first rolls and then slips down an inclined plane. The ratio of its acceleration in two cases will be
 (a) 5/3 (b) 3/5 (c) 15/13 (d) 13/15
208. The moment of inertia of a ring about its geometrical axis is I , then its moment of inertia about its diameter will be
 (a) $2I$ (b) $I/2$ (c) I (d) $I/4$
209. The angular momentum and the moment of the inertia are respectively
 (a) vector and tensor quantities (b) scalar and vector quantities
 (c) scalar and scalar quantities (d) vector and vector quantities
210. A force of 15 N is applied to a spanner at an effective length of 140 mm from the centre of a nut. The magnitude of the force required to produce the same moment if the effective length is reduced to 100 mm is
 (a) 2.1 N (b) 21 N (c) 15 N (d) 0 N
211. If a hollow cylinder and a solid cylinder are allowed to roll down an inclined plane, which will take more time to reach the bottom

Chapter 8 Supplemental Problems Rotational Motion Answers

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