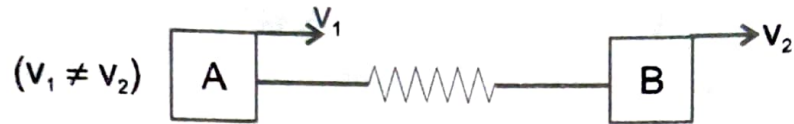
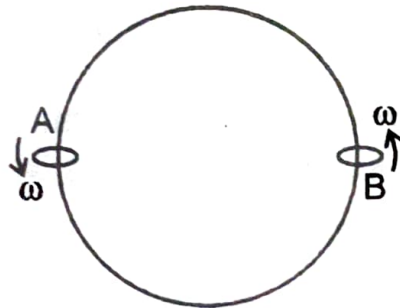


System behaves as a rigid body

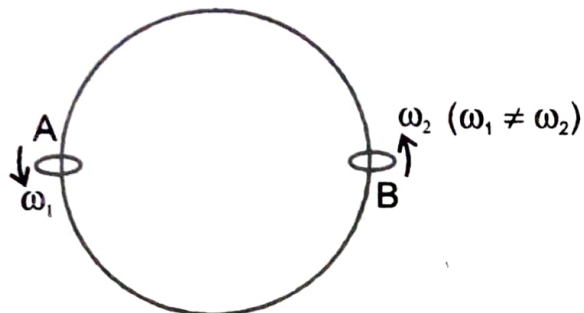


System behaves as a non-rigid body

A & B are beads which move on a circular fixed ring



A + B is a rigid body system
but A + B + ring is non-rigid system



A + B is non-rigid system

→ Moment of inertia plays same role in the rotational motion as mass plays in translational motion

→ Torque is vector quantity and its direction is determined using right hand thumb rule and it's always perpendicular to the plane of rotation of the body