

**12** An object, made from two equal masses joined by a light rod, falls with uniform speed through air.

The rod remains horizontal.

Which statement about the equilibrium of the system is correct?

**A** It is not in equilibrium because it is falling steadily.

**B** It is not in equilibrium because it is in motion.

**C** It is not in equilibrium because there is a resultant torque.

**D** It is in equilibrium because there is no resultant force and no resultant torque.

**13** A spindle is attached at one end to the centre of a lever 1.20 m long and at its other end to the