

15 A satellite is in a circular orbit travelling at a constant speed around the Earth.

Which statement about the satellite is correct?

- A** The satellite is in equilibrium because it is travelling at a constant speed.
- B** The satellite is in equilibrium because the gravitational force equals the centripetal force.
- C** The satellite is not in equilibrium because it is travelling at a constant velocity.
- D** The satellite is not in equilibrium because there is a resultant force acting on it.

16 The centripetal force on an electron as it orbits a proton is $2.3 \times 10^{-8} \text{ N}$.