

**16** A particle oscillates with undamped simple harmonic motion.

Which statement describes the energy changes of the particle for one oscillation?

- A** At every point in the oscillation, kinetic energy  $\div$  potential energy = constant.
- B** At every point in the oscillation, potential energy = constant – kinetic energy.
- C** The kinetic energy always increases with increasing displacement.
- D** The potential energy increase is greater than the kinetic energy decrease.

**17** What is not an example of resonance?