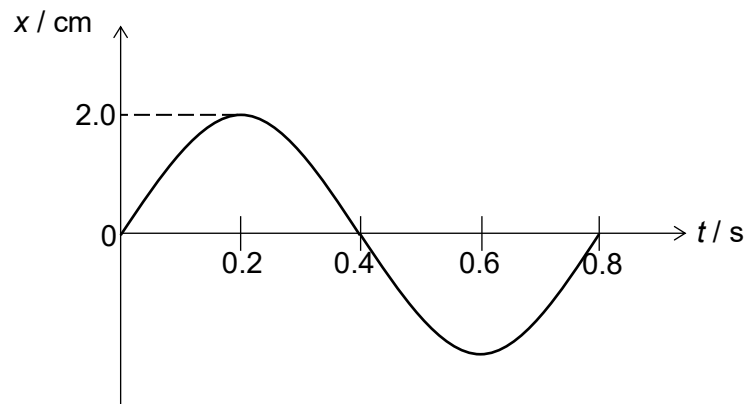


- 14** The variation with time of the displacement of a particle of mass 2.0 kg undergoing simple harmonic oscillations is shown below.



At $t = 0.4\text{ s}$,

- A** the speed is 10 cm s^{-1} while the potential energy is 0 J .
- B** the speed is 16 cm s^{-1} while the potential energy is 0.025 J .
- C** the speed is 10 cm s^{-1} while the acceleration is 0 m s^{-2} .
- D** the speed is 16 cm s^{-1} while the acceleration is 0 m s^{-2} .