

**25** Which statement about electromagnetic waves is correct?

- A** A wave of wavelength  $5.0 \times 10^{-6} \text{ m}$  is invisible to the human eye.
- B** They can all travel at different speeds in free space.
- C** They cannot be polarised.
- D** They consist of vibrating atoms.

**26** A student is investigating the relationship between the frequency of a wave and its wavelength. The student has a wave of frequency  $10^6 \text{ Hz}$  and wavelength  $10^6 \text{ m}$ . The student changes the frequency to  $10^7 \text{ Hz}$ . What is the new wavelength?