

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.

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27 Which wavelength of electromagnetic radiation in free space could be green light?

- A $4.9 \times 10^{-9} \text{ m}$ B $6.6 \times 10^{-9} \text{ m}$ C $5.5 \times 10^{-7} \text{ m}$ D $8.6 \times 10^{-7} \text{ m}$

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27 An electromagnetic wave travelling in free space is **not** visible to the human eye.

What is a possible wavelength of the wave?

- A $4.5 \times 10^{-10} \text{ km}$
- B $6.2 \times 10^{-7} \text{ m}$
- C $5.4 \times 10^{-6} \text{ cm}$
- D $4.2 \times 10^{-4} \text{ mm}$

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23 What is the approximate range of wavelengths in free space for infrared radiation?

- A 100 nm to 400 nm
- B $300 \mu\text{m}$ to 30 cm
- C 400 nm to 700 nm
- D 800 nm to $1000 \mu\text{m}$