

- 25** A wave has a speed of 340 m s^{-1} and a period of 0.28 ms .

What is its wavelength?

- A** 0.095 m **B** 95 m **C** $1.2 \times 10^3 \text{ m}$ **D** $1.2 \times 10^6 \text{ m}$

- 26** Which line in the table summarises the change in wave characteristics on going from infra-red to ultraviolet in the electromagnetic spectrum?

	frequency	speed in a vacuum
A	decreases	decreases
B	decreases	remains constant
C	increases	remains constant
D	increases	increases

- 27** Light of wavelength 600 nm is incident on a pair of slits. Fringes with a spacing of 4.0 mm are formed on a screen.

What will be the fringe spacing when the wavelength of the light is changed to 400 nm and the separation of the slits is doubled?

- A** 1.3 mm
B 3.0 mm
C 5.3 mm
D 12 mm

Space for working