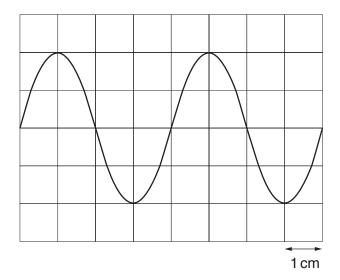
**25** Electromagnetic waves of wavelength  $\lambda$  and frequency f travel at speed c in a vacuum.

Which of the following describes the wavelength and speed of electromagnetic waves of frequency f/2?

	wavelength	speed in a vacuum
Α	λ/2	c/2
В	λ/2	С
С	2λ	С
D	2λ	2 <i>c</i>

26 A sound wave is displayed on the screen of a cathode-ray oscilloscope. The time base of the c.r.o. is set at 2.5 ms/cm.



What is the frequency of the sound wave?

- **A** 50 Hz
- **B** 100 Hz
- **C** 200 Hz
- **D** 400 Hz
- 27 When the light from two lamps falls on a screen, no interference pattern can be obtained.

Why is this?

- **A** The lamps are not point sources.
- **B** The lamps emit light of different amplitudes.
- **C** The light from the lamps is not coherent.
- **D** The light from the lamps is white.