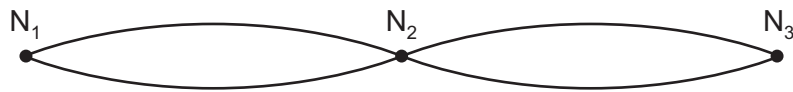


- 25** An electromagnetic wave has a wavelength of  $1.0 \times 10^{-7}$  m.

To which region of the electromagnetic spectrum does this wave belong?

- A** infra-red
- B** ultraviolet
- C** visible
- D** X-ray

- 26** The diagram shows a stationary wave on a string. The stationary wave has three nodes  $N_1$ ,  $N_2$  and  $N_3$ .



Which statement is correct?

- A** All points on the string vibrate in phase.
  - B** All points on the string vibrate with the same amplitude.
  - C** Points equidistant from  $N_2$  vibrate with the same frequency and in phase.
  - D** Points equidistant from  $N_2$  vibrate with the same frequency and the same amplitude.
- 27** In which situation does diffraction occur?
- A** A wave bounces back from a surface.
  - B** A wave passes from one medium into another.
  - C** A wave passes through an aperture.
  - D** Waves from two identical sources are superposed.