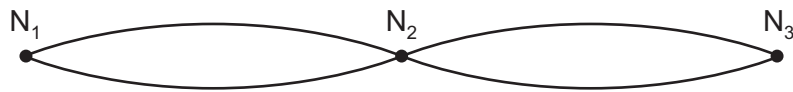


- 25** An electromagnetic wave has a wavelength of 1.0×10^{-7} m.

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.