

**24** Which statement concerning a stationary wave is correct?

- A** All the particles between two successive nodes oscillate in phase.
- B** The amplitude of the stationary wave is equal to the amplitude of one of the waves creating it.
- C** The wavelength of the stationary wave is equal to the separation of two adjacent nodes.
- D** There is no displacement of a particle at an antinode at any time.

**25** Continuous water waves are diffracted through a gap in a barrier in a ripple tank.