

- 27** A sound wave is set up in a long tube, closed at one end. The length of the tube is adjusted until the sound from the tube is loudest.

What is the nature of the sound wave in the tube?

- A** longitudinal and progressive
- B** longitudinal and stationary
- C** transverse and progressive
- D** transverse and stationary

- 28** Two light sources produce visible interference fringes only in certain circumstances.

Which condition enables visible interference fringes to be formed?

- A** using a white light source
- B** using incoherent sources
- C** using one light source which is polarised at right angles to light from the other source
- D** using sources from which the light does not overlap

**Space for working**