Paper 3 June 2014

8 (a) Draw a straight line from each quantity on the left-hand side to a speed on the right-hand side which is typical for that quantity.

| 30 m/s | 300 m/s | 300 m/s | 3000 m/s | 30

(b) Explain why sound waves are described as longitudinal.

(c) Fig. 8.1 shows how the displacement of air molecules, at an instant of time, varies with distance along the path of a sound wave.

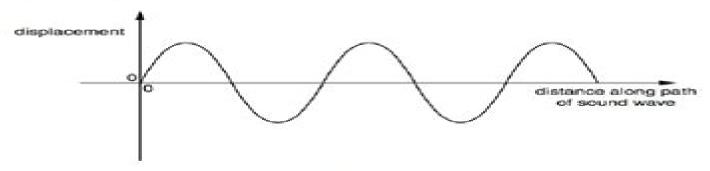


Fig. 8.1

- On Fig. 8.1, sketch two cycles of a sound wave that has a shorter wavelength and a greater amplitude.
- (iii) State two changes in the sound heard from this wave compared with the original wave.

1. .....

[2]

[22]

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Huangqi Zhang



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