

CHAPTER 16: TRANSFER OF SOUND ENERGY THROUGH VIBRATIONS

SECTION A [30 MARKS]

Write your answers, A, B, C or D, clearly in the brackets provided.

1. David and James both heard thunder after seeing lightning flash across the sky. James concluded that the speed of sound is greater than the speed of light. James's conclusion was wrong because _____

Level 1

- A the speed of sound is equal to the speed of lightning as both lightning and thunder were observed to occur at the same time
- B the speed of sound is greater than the speed of lightning as the flash of lightning was seen before the sound of thunder was heard
- C the speed of sound is greater than the speed of lightning as the sound of thunder was heard before the flash of lightning was seen
- D the speed of lightning is faster than the speed of sound as the flash of lightning was seen before the sound of thunder was heard (D)

2. A student is making a small drum by stretching a membrane across a large, empty box. Which of the following questions should the student ask before making the drum?

Level 2

- I. What material should be used to make the drum membrane?
- II. Should the drum membrane be flexible or rigid?
- III. What colour should the drum have?
- IV. What material should be used to make the resonance box?

- A I, II and III only
- B I, II and IV only
- C II, III and IV only
- D All of the above (B)

3. Divers sometimes tap a metal rod on their oxygen tanks to alert other divers. The sound is transmitted through water by vibrations. Which of the following processes must occur?

Level 2

- I. The metal tank vibrates.
- II. The vibrations are transmitted from the tank to the water molecules.
- III. The vibrating molecules of water collide with each other to transmit the sound to the eardrums of another diver.

- A I and II only
- B I and III only
- C II and III only
- D All of the above (D)

4. Several students are conducting an experiment using a plastic box with a lid on which sand particles are resting. Each student uses a tuning fork to strike the bench top and listens to the sound produced by holding the tuning fork close to their ears. The tuning fork is then lightly and gently struck on the bench top once more and the stem of the fork allowed to touch the lid of the plastic box. The students observed the sand particles jumping up and down on the lid of the plastic box. Which of the following was the hypothesis being tested in this experiment?

Level 3

- A The tuning fork, after striking the students' bench top, possessed static electricity.
- B Both the tuning fork and sand particles possessed magnetic properties.
- C Sound is produced by a vibrating object.
- D Sound can only be heard near our ears. (C)

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