

## 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 )

# Chapter 26 Test Answers Sound

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## **Table of Contents Chapter 26 Test Answers Sound**

1. Understanding the eBook Chapter 26 Test Answers Sound
  - The Rise of Digital Reading Chapter 26 Test Answers Sound
  - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 26 Test Answers Sound
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Chapter 26 Test Answers Sound
  - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 26 Test Answers Sound
  - Personalized Recommendations
  - Chapter 26 Test Answers Sound User Reviews and Ratings
  - Chapter 26 Test Answers Sound and Bestseller Lists
5. Accessing Chapter 26 Test Answers Sound Free and Paid eBooks
  - Chapter 26 Test Answers Sound Public Domain eBooks
  - Chapter 26 Test Answers Sound eBook Subscription Services
  - Chapter 26 Test Answers Sound Budget-Friendly Options

6. Navigating Chapter 26 Test Answers Sound eBook Formats
  - ePub, PDF, MOBI, and More
  - Chapter 26 Test Answers Sound Compatibility with Devices
  - Chapter 26 Test Answers Sound Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Chapter 26 Test Answers Sound
  - Highlighting and Note-Taking Chapter 26 Test Answers Sound
  - Interactive Elements Chapter 26 Test Answers Sound
8. Staying Engaged with Chapter 26 Test Answers Sound
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Chapter 26 Test Answers Sound
9. Balancing eBooks and Physical Books Chapter 26 Test Answers Sound
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Chapter 26 Test Answers Sound
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Chapter 26 Test Answers Sound
  - Setting Reading Goals Chapter 26 Test Answers Sound
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chapter 26 Test Answers Sound
  - Fact-Checking eBook Content of Chapter 26 Test Answers Sound
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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