

Chapter: 12

Q.1 A) Choose the correct alternative and rewrite the sentence (1)

Sound gets transmitted through

- a. Solids b. Liquids c. Gases d. All of these

B) Answer the following questions. (2)

1) Find co-related terms

Value of frequency : Pitch :: Value of amplitude :

2) Find the odd man out:

2) Dogs, human, Bat, Dolphin

Q.2 A) Give scientific reasons (Any one) (2)

1) The roof of a movie theatre and a conference hall is curved.

2) A person observes lightning first and then hears the thunder.

B) Answer the following questions. (Any two) (4)

1) Write short notes

1) Velocity of the sound wave

2) Distinguish between

Audible sound and Infra sound.

3) A wave has time period 20 seconds & is moving with a speed of 25 m/s. What is its wavelength? What is the distance between:

- 1) two adjacent crests on wave 2) adjacent crest & trough?

Q.3 Answer the following questions. (Any two) (6)

1) What is sonography? Explain the technique of sonography.

2) Sunil is standing between two walls. The wall closest to him is at a distance of 360 m. If he shouts, he hears the first echo after 4 s and another after another 2 seconds

- i. What is the velocity of sound in air?
ii. What is the distance between the two walls?

3) Answer the questions based on the figure given below.

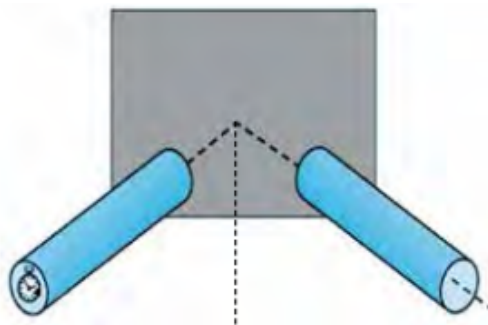


- How many waves (vibrations) does the above image represent?
- What is the frequency if the wave shown in the figure propagates in 5 seconds?
- What is the effect on wavelength if the frequency is increased?

Q.4 Answer the following questions. (Any one)

(5)

1) Label the diagram and explain.



2) Explain the SONAR technique with the help of a neat labelled diagram.

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