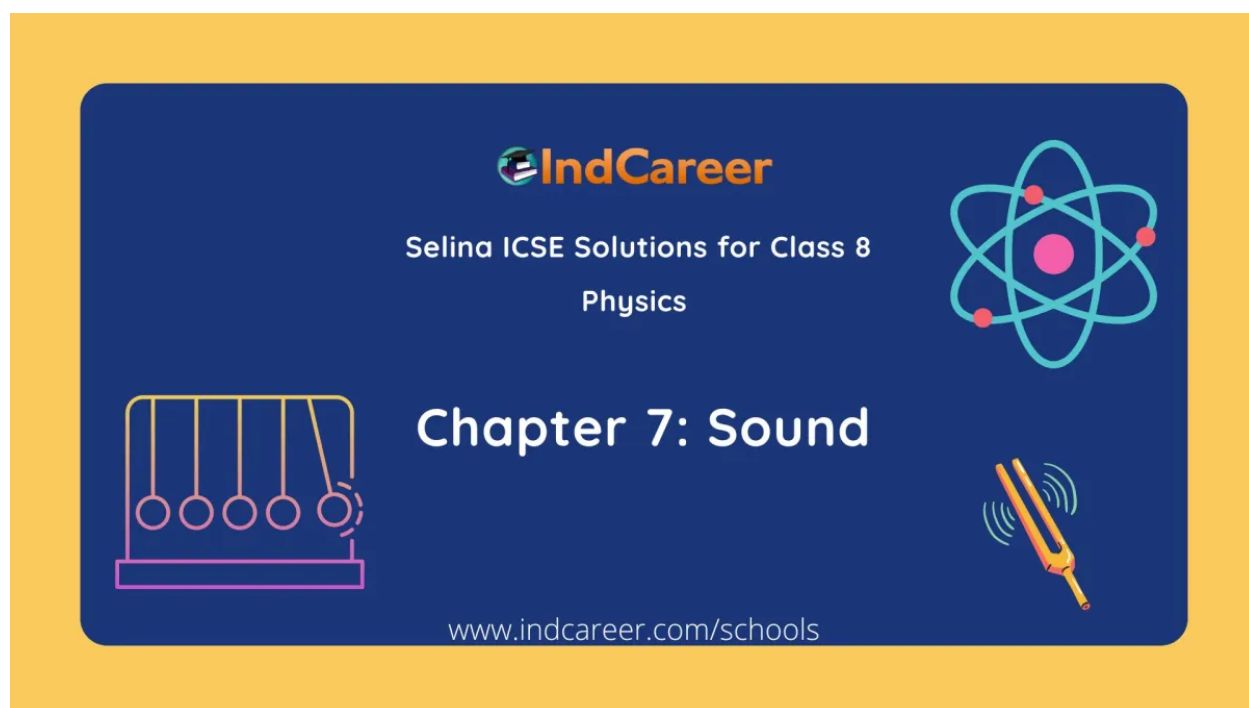


Selina Class 8 ICSE Solutions Physics :

Chapter 7- Sound



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Selina Class 8 ICSE Solutions Physics :

Chapter 7- Sound

Class 8: Physics Chapter 7 solutions. Complete Class 8 Physics Chapter 7 Notes.

Selina Class 8 ICSE Solutions Physics : Chapter 7- Sound

Selina 8th Physics Chapter 7, Class 8 Physics Chapter 7 solutions

A. Objective Questions

1. Write true or false for each statement

(a) When sound propagates in air, it does not carry energy with it.

Solution: False.

(b) In a longitudinal wave, compression and rarefaction are formed.

Solution: True.

(c) The distance from one compression to the nearest rarefaction is called wavelength.

Solution: False.

(d) The frequency is measured in second.

Solution: False.

(e) The pitch of a sound depends on the amplitude of the wave.

Solution: False.

(f) The pitch of a sound depends on the amplitude of the wave.

Solution: True.

(g) Decibel is the unit of the pitch of a sound.

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Solution: False.

Question 2

Fill in the blanks

- (a) The time period of a wave is 2 s. Its frequency is **0.5S^{-1}**
- (b) The pitch of a stringed instrument is increased by **increasing** tension in the string.
- (c) The pitch of a flute is decreased by **increasing** the length of the air column.
- (d) Smaller the membrane, **higher** is the pitch.
- (e) If a drum is beaten hard, its loudness **increases**.
- (f) A tuning fork produces the sound of a **single** frequency.

Question 3

Match the following

Column A

- (a) Amplitude
- (b) Frequency
- (c) Loudness
- (d) Pitch
- (e) Waveform

Column B

- (i) $1/\text{time period}$
- (ii) amplitude
- (iii) maximum displacement
- (iv) presence of other frequencies
- (v) frequency

Solution:

Column A

- (a) Amplitude
- (b) Frequency
- (c) Loudness
- (d) Pitch

Column B

- (iii) maximum displacement
- (i) $1/\text{time period}$
- (ii) amplitude
- (v) frequency

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(e) Waveform

(iv) presence of other frequencies

Question 4

Select the correct alternative

(a) Sound can not travel in

1. solid
2. liquid
3. gas
4. vacuum

Answer: The correct answer is 4. vacuum

(b) When sound travels in the form of a wave

1. the particles of the medium move from the source to the listener
2. the particles of the medium remains stationary
3. the particles of medium start vibrating up and down
4. the particles of medium transfer energy without leaving their mean positions.

Answer: The correct answer is 4. the particles of medium transfer energy without leaving their mean positions.

(c) The safe limit of loudness of audible sound is

1. 0 to 80 dB
2. above 80 dB
3. 120 dB
4. above 120 dB

Answer: The correct answer is 1. 0 to 80 dB

(d) The unit of loudness is

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1. cm
2. second
3. hertz
4. decibel

Answer: The correct answer is 4. decibel

(e) In a piano, the pitch is decreased by

1. using a thicker string
2. increasing tension
3. reducing the length of string
4. striking it hard

Answer: The correct answer is 1. using a thicker string



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Class 8 Physics

- Chapter 1- Matter
- Chapter 2- Physical Quantities and Measurement
- Chapter 3- Force and Pressure
- Chapter 4- Energy
- Chapter 5- Light Energy
- Chapter 6- Heat Transfer
- Chapter 7- Sound
- Chapter 8- Electricity

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