

Physics - 10th Class Physics English Medium Chapter 11 Preparation

Q1. Why sound waves are called mechanical waves?

Ans 1: Sound waves are called mechanical waves because they require material medium for their propagation.

Q2. What is audible frequency range?

Ans 1: The range of the frequencies which a human ear can hear is called the audible frequency range.

Q3. Explain that noise is a nuisance?

Ans 1: Noise is a nuisance because it causes offence annoyance, trouble or injury.

Q4. On what factors pitch depends.

Ans 1: It depends upon the frequency. A higher pitch means higher frequency and vice versa.

Q5. Define echo or sound.

Ans 1: When sound is incident on the surface of a medium it bounces back into the first medium, This phenomenon is called echo or reflection of sound.

Q6. What is musical sound?

Ans 1: Sounds which are pleasant to our ears are called musical sounds. e.g. sounds of guitar and violin.

Q7. Define intensity and its unit.

Ans 1: Sound energy passing per second through a unit area held perpendicular to the direction of propagation of sound waves is called intensity of sound.

Q8. Why the voice of women is shriller than that of men?

Ans 1: The frequency of the voice of ladies is higher than that of men. Therefore, the voice of ladies is shrill and of high pitch.

Q9. Difference between Quality and pitch.

Ans 1: the property of sound by which we can distinguish between two sounds of same loudness and pitch is called quality.

Ans 2: Pitch: The property of sound by which we can distinguish between shrill and grave sound is called pitch.

Q10. What is frequency.

Ans 1: The number of vibrations per cycle of a vibrating body in one second is called frequency.
