

## 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 of 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.

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Q10. What is frequency.

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

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