

Physics - 10th Class Physics English Medium Chapter 11 Preparation

Q1. What is speed

Ans 1: The distance covered in unit time is called speed.

Q2. Define loudness? On what factors loudness depends.

Ans 1: "Loudness is the characteristics of sound by which loud and faint sounds can be distinguished". Loudness depends upon a number of factors. Such as.

- i. Amplitude of the vibrating body
- ii. Area of the vibrating body
- iii. Distance from the vibrating body
- iv. Physical condition of ear.

Q3. 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.

Q4. On what factors pitch depends.

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

Q5. What is SONAR?

Ans 1: SONAR is "sound navigation and ranging". It is a technique used to estimate the distance of object from the ocean surface.

Q6. Difference Between the loudness and intensity of sound.

Ans 1: Loudness: i. Characteristics of sound by which we can distinguish between loud and faint sounds is called loudness.
ii. It is not a physical quantity.

Ans 2: Intensity of Sound: i. Sound energy passing per second through a unit area held perpendicular to the direction of propagation of sound waves is called intensity of sound.
ii. It is a physical quantity. Its unit is Wm^{-2}

Q7. Difference between echo and reflection of sound?

Ans 1: The echo is formed through reflection but the reflection does not form an echo. All sounds reflect back but it is not necessary

that all reflections produce echo.

Q8. Difference between frequency and pitch.

Ans 1: Frequency: The number of vibration completed in one second is called frequency. Its unit is hertz.(Hz)

Ans 2: Pitch: Pitch is the characteristics of sound by which we can distinguish between a shrill and grve sound. It has no unit.

Q9. What is frequency.

Ans 1: The number of vibration s per cycle of a vibrating body n one second is called frequency.

Q10. What is musical sound?

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