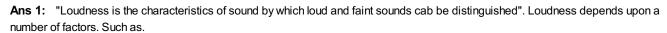


Physics - 10th Class Physics English Medium Chapter 11 Preparation

Q1. 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 physical quantity.
Ans 2: Intensity os 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 physical quantity. Its unit is Wm-2
Q2. What is musical sound?
Ans 1: Sounds which are pleasant to our ears are called musical sounds. e.g. sounds of guitar and violin.
Q3. What are sources of noise pollution?
Ans 1: Transportation equipment, heavy machinery, loud vehicles horns and alarms are the source of noise pollution.
Q4. What is diaphragm?
Ans 1: the chest piece consists of a plastic disc called diaphragm in stethoscope.
Q5. Why ultrasound is useful in medical field?
Ans 1: Ultrasonic waves carry more energy and short wavelength therefore ultrasonic waves are used to diagnose and treat different ailments.
Q6. Define wavelength of sound wave.
Ans 1: Distance between two consecutive compressions or rarefactions is called the wavelengths of sound wave.
Q7. What is frequency.
Ans 1: The number of vibration s per cycle of a vibrating body n one second is called frequency.

Q8. Define loudness? On what factors loudness depends.



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

Q9. 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.

Q10. 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. There fore, the voice of ladies is shrill and of high pitch.