CLASS-VIII

SCIENCE

CHAPTER-13

Very Short Answer Questions

Question 1.
What does voice box or larynx of human produces?
Answer: Sound

Question 2.
In which medium sound propagates the maximum?
Answer: Solid

Question 3.
Name the sound producing organ in human.
Answer: Larynx

Question 4.
What is vibration?
Answer: Back and forth motion of an object.

Question 5.
Do all bodies produce sound?
Answer: No

Question 6.
How is sound produced?
Answer: By vibrating bodies.

Question 7.
Name a musical instrument which produces sound by blowing air into it.
Answer: Flute

Question 8.
What is the unit of frequency?
Answer: Hertz

Question 9.
What do you mean amplitude?
Answer: Vibrations produced by vibrating body in one second is known as amplitude.

Question 10.
What is the maximum displacement of an oscillating object is called?
Answer: Amplitude

Question 11.
How does sound help us?
Answer: Sound help us to communicate.

Question 12.
What is the unit of loudness?
Answer: Decibel (dB)

Question 13.
What is audible sound?
Answer: Frequency between 20 Hz to 20,000 Hz is audible sound.

Question 14.
In which medium sound travels faster?
Answer: Solid

Question 15.
A simple pendulum makes 20 oscillations in 40 seconds. What is the time period and frequency of its oscillation?
Answer:
Time period = $\frac{\text{Time}}{\text{No. of oscillation}} = \frac{40}{20} = 2$ sec.
Frequency = $\frac{\text{No. of oscillation}}{\text{Time}} = \frac{20}{40} = 0.5$ Hz

Question 16.
Sonali heard sound of thunderbolt 5 second after she saw flash of lightning. How far is she from the place where lightning occurs? (speed of sound = 330 m/s)
Answer:
Distance of Sonali from the place of lightning = 330 × 5 = 1650 m

Question 17.
What is frequency?
Answer:
The number of oscillations per second is called frequency. Its unit is hertz.

Question 18.
What do you mean by oscillatory motion?
Answer:
The to and fro motion of an object is called vibration. This motion in both the direction from its mean position is called oscillatory motion.

Question19.
Two astronauts are floating close to each other in space. Can they talk to each other without using any special device? Give reasons.
Answer:
No, because in space there is no atmosphere and sound needs medium to travel.

Question 20.
What do you mean by time period?

Answer:
The time taken by a vibrating body to complete one oscillation is called the time period.

Question 21.
What are the harms of noise pollution?
Answer:
Lack of sleep, hypertension, anxiety and temporary or even permanent impairment of hearing.

Question 22.
What do you mean by audible sound?
Answer:
The sound which we can hear clearly is known as audible sound. It has a range of frequencies from 20 Hz to 20,000 Hz.

Question 23.
What are infrasonic sounds?
Answer:
Sounds which have frequency lower than 20 Hz are called infrasonic sounds.

Question 24.
What is noise pollution?
Answer:
The presence of unwanted and excessive sound in the environment is called noise pollution.

Question 25.
What are the methods to control noise pollution?
Answer:
Following are the methods to control noise pollution:

- The noise pollution can be controlled by reducing the respective sources of noise pollution.
- The blowing of horns and speaker should be strictly avoided near schools and hospitals.
- More and more trees should be planted on roadside because trees absorb sound.

Question 26.
What is the function of hair and wax in ear canal?
Answer:
The hair and wax in the ear canal help to keep out foreign debris such as dirt and bugs.

Question 27.
When we speak and hear, does any part of our body vibrate? Name them.
Answer:
Yes. When we speak, vocal cords vibrate to produce sound and when we hear, eardrum vibrate to receive the sound wave

Question 28.
Why we are able to hear sound of a clock clearer at night than in day?
Answer:
The noise level is quite low at night. Therefore the sound of the clock appears much clearer at night than in the day.