

Chapter-3

Worksheet-2

Section 1

- Q1. What do you mean by oscillatory motion?
- Q2. What do you mean by audible sound?
- Q3. What are the methods to control noise pollution?
- Q4. Define frequency.
- Q5. A string musical instrument was first plucked with a force of smaller magnitude and then with a force of greater magnitude. In which case would the instrument produce a louder sound?
- Q6. Differentiate between musical sound and noise.
- Q7. How is sound produced and how is it transmitted and heard by us?
- Q8. What is the function of hair and wax in ear canal?
- Q9. We have learnt that vibration is necessary for producing sound. Explain why the sound produced by every vibrating body cannot be heard by us.
- Q10. Do all animals produce sound by vocal chords? If not give examples.

Section 2

Q11. Equivalent unit of Hertz is

- a) m^{-1}
- b) s^{-1}
- c) $(m/s)^{-1}$
- d) N^{-1}

Q12. Above _____ dB the sound becomes physically painful

- a) 60
- b) 40
- c) 120
- d) 80

Q13. When the amplitude of vibration is large, sound produced is

- a) No sound
- b) Feeble
- c) Loud
- d) There is no relation between amplitude and sound

Q14. An ultrasound equipment works at frequency

- a) Higher than 10,000 Hz
- b) Higher than 20,000 Hz
- c) Lower than 10,000 Hz
- d) Lower than 20,000 Hz

Q15. Voice of man is heavy compared to a woman because

- a) Female vocal cord is longer
- b) Male vocal cord is shorter
- c) Male vocal cord is longer
- d) The concept is not related

Q16. Frequency of sound is lowest for

- a) Man
- b) Woman
- c) Young Boy

d) Young Girl

Q17. Speed is

- a) $\frac{\text{Distance Travelled}}{\text{Time}}$
- b) $\frac{\text{Time}}{\text{Distance Travelled}}$
- c) $\text{Distance Travelled} \times \text{Time}$
- d) $\text{Distance Travelled} + \text{Time}$

Q18. For an oscillating pendulum of fixed length, which of the following is true?

- a) frequency depends on amplitude of oscillation
- b) frequency and time period are not related.
- c) time period depends on amplitude of oscillation
- d) frequency and time period are related and do not depend on amplitude of oscillation.

Q19. Which one of the following material will reflect sound better?

- a) Thermocol
- b) Curtain made from cloth
- c) Steel
- d) Paper

Q20. Shrill sound is of

- a) Lower frequency
- b) Higher Frequency
- c) Higher Amplitude
- d) Lower Amplitude