

Chapter: 15

Q.1 Fill in the blank and rewrite the completed statements

4

- 1 Different sound notes have different
- 2 Medium is for generation of sound.
- 3 The frequency of sound is measured in
- 4 One compression and one rarefaction together forms one of the wave.

Q.2 Match the pair

3

1

Column - A (Note)	Column - B (Frequency)
i. sa	a. 256
ii. ni	b. 246
	c. 480
	d. 259

2

Column - A	Column - B
i. Jal tarang	a. Vibration of metal arms
ii. Tuning fork	b. Vibrations in strings
	c. Vibrations in air column

3

Column - A	Column - B
i. Human larynx	a. Vibrations of screen
ii. Loudspeaker	b. Vibrations in air column
	c. Vibrations in vocal cords

Q.3 State True or False

4

- 1 Due to back and forth motion of the prongs of the tuning fork, sound waves are produced.
- 2 The vibration of tuning fork results in compressions and rarefactions in air.
- 3 Region in which air is at low pressure and low density is called compression.
- 4 The sound produced is not affected by change in frequency of sound.

Q.4 Distinguish between

2

- 1 Sound Produced by Human and Sound generation by loudspeaker

Q.5 Give scientific reasons (Any Two)

4

- 1 Astronauts on the moon can not hear each other directly.
- 2 As the sound wave propagates from one place to the other in air, the air itself is not required to move from one place to the other.

- 3 How is sound produced in a human larynx and a loudspeaker?

Q.6 Answer the following (Any One)

3

- 1 Explain frequency of sound generated by each glass cup will also be different. So, the sound generated is different?
- 2 Take 6-7 glass cups. Arrange them in a line and fill them with water with gradually increasing water level from one end to other. Take a pencil and strike the cups sequentially. The sound generated by each cup will be different. Why it is so?

