

GSc. Class - VIII

SOUND

ASSIGNMENT No. 18

SA-2

Q1. Fill in the blanks:

1. Sound is produced by _____ bodies.
2. In humans, the sound is produced by the _____.
3. Sound always travels through a _____. It cannot travel in a _____.
4. The thin membrane called _____ present in our ears, senses the vibrations and sends them as signals to the _____.
5. The no. of vibrations per second is called _____.
It is expressed in _____.
6. Loudness of sound is proportional to the square of the _____.
7. Larger is the amplitude of vibration, the _____ is the sound.
8. Higher the frequency of vibration, the higher is the _____.
9. A bird makes _____ sound whereas a lion makes _____ sound. (low pitched/high pitched)
10. For human ears, the range of audible frequency is from _____ Hz. to _____ Hz.

Q2. Answer in one word:

1. Two important properties of any sound.
2. Time taken by a vibrating body to complete one vibration.
3. Vibrations of frequency higher than 20,000Hz.

4. Vibrations of frequency lower than 20 Hz.
5. The frequency of a vibrating body that makes 512 vibrations in a second.
6. Unwanted and unpleasant sounds.
7. It determines the shrillness or pitch of a sound.
8. Length of vocal chords in men.
9. Name any four causes of noise pollution our surroundings.
10. Name any two health related problems caused due to noise pollution.

Q3. Answer the following:

1. Describe how is sound produced by humans?
2. Explain how the human ear drum helps them to hear.
3. Define: a) Amplitude b) Time period c) Frequency
4. How is loudness of sound related to amplitude?
5. How is frequency of sound related to pitch?
6. What is noise pollution? How can it be controlled?

Q4. Give reasons:

1. Voice of men and women are different.
2. Trees planted along the roads reduce noise.
3. A child with a hearing loss may also have defective speech.
4. We should never put sharp pointed objects in our ear.
5. Astronauts are not able to talk with each other on the surface of moon.

Q5. In the foll. musical instruments, name the vibrating part which produces sound:

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|-----------|------------|----------|-----------|
| 1. Guitar | 2. Shehnai | 3. Drums | 4. Violin |
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Q6. Describe simple experiments to show each of the following:

1. Vibrating objects produce sound.
2. Sound can travel through water.
3. Sound can travel through solids.
4. To make a toy telephone.
5. To make a jaltarang.
6. Sound needs a medium to travel.

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