

**DELHI PUBLIC SCHOOL JAMMU**

**SESSION 2024-25**

**MONTH : NOVEMBER**

**ASSIGNMENT IV**

**CLASS : VIII**

**SUBJECT: SCIENCE**

**TOPIC : SOUND**

**Q1.** The decibel (dB ) is a unit that measures \_\_\_\_\_ of sound.

- a) Loudness.
- b) Pitch.
- c) Frequency.
- d) Quality.

**Q2. Assertion (A):** The flash of lightening is seen before the sound of thunder is heard.

**Reason (R):** Speed of sound is greater than speed of light.

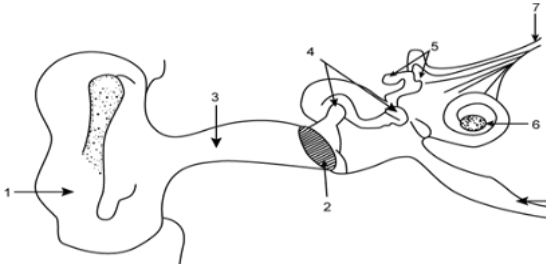
- a) Both A and R are true, and R is the correct explanation of A.
- b) Both A and R are true, but R is not the correct explanation of A.
- c) A is true, but R is false.
- d) A is false, but R is true.

**Q3.** What is meant by:      a) amplitude                      b) frequency

**Q5.** a) Differentiate between Infrasonic and Ultrasound

c) How does noise differ from music.

**Q6. Observe the diagram and label all its parts:**



**Q7. Read the following paragraph and answer the questions that follows:**

Echoes are used by doctors to get a picture of internal organs of the body. The ultrasonic vibrations reflected by the different parts of organs of the body help a doctor to make image of organ. These image further help a doctor to make an image of the organ. These images help a doctor detect any abnormality In medical science echo method of ultrasonic waves is used to evaluate the effects of medications: Echocardiography can help doctors evaluate the effects of medications on the heart, and adjust treatments as needed. Ultrasonography is used to detect development of unborn baby.

- a) Why do doctors use echo?
- b) What is ultrasonography?
- c) What is echo cardiography used for?

**Q8.** Suppose a stick is struck against a frying pan in vacuum? Will the frying pan vibrate? Will we be able to hear the sound? Explain.