Question 5.

A pendulum oscillates 40 times in 4 seconds. Find its time period and frequency.

Answer:

Question 6.

The sound from a mosquito is produced when it vibrates its wings at an average rate of 500 vibrations per second. What is the time period of the vibration?

Question 2.

Voice of which of the following is likely to have minimum frequency ? [NCERT]

- Baby girl
- Baby boy
- A man
- A woman

Question 5.

Fill in the blanks with suitable words. [NCERT]

1. Time taken by an object to complete one oscillation is called .....
2. Loudness is determined by the ..... of vibration.
3. The unit of frequency is .....
4. Unwanted sound is called .....
5. Shrillness of a sound is determined by the ..... of vibration.

Question 12.

Define 1 hertz.

Question 5.

If the amplitude increases 3 times, by how much will the loudness increase ?

Question 6.

The frequency of a given sound is 1.5 kHz. How many vibrations is it completing in one second ?

Answer:

Question 11.

Draw a labelled diagram showing the structure of the human ear.

Answer:

Human ear

Question 2.

The frequency of a given sound is 1.5 kHz. The vibrating body is

(a) completing 1,500 vibrations in one second.

(b) taking 1,500 seconds to complete one vibration.

(c) taking 1.5 seconds to complete one vibration.

(d) completing 1.5 vibrations in one second

Question 8.

Loudness of sound is expressed in

(a) Hertz

(b) Decibel

(c) Seconds

(d) None of these