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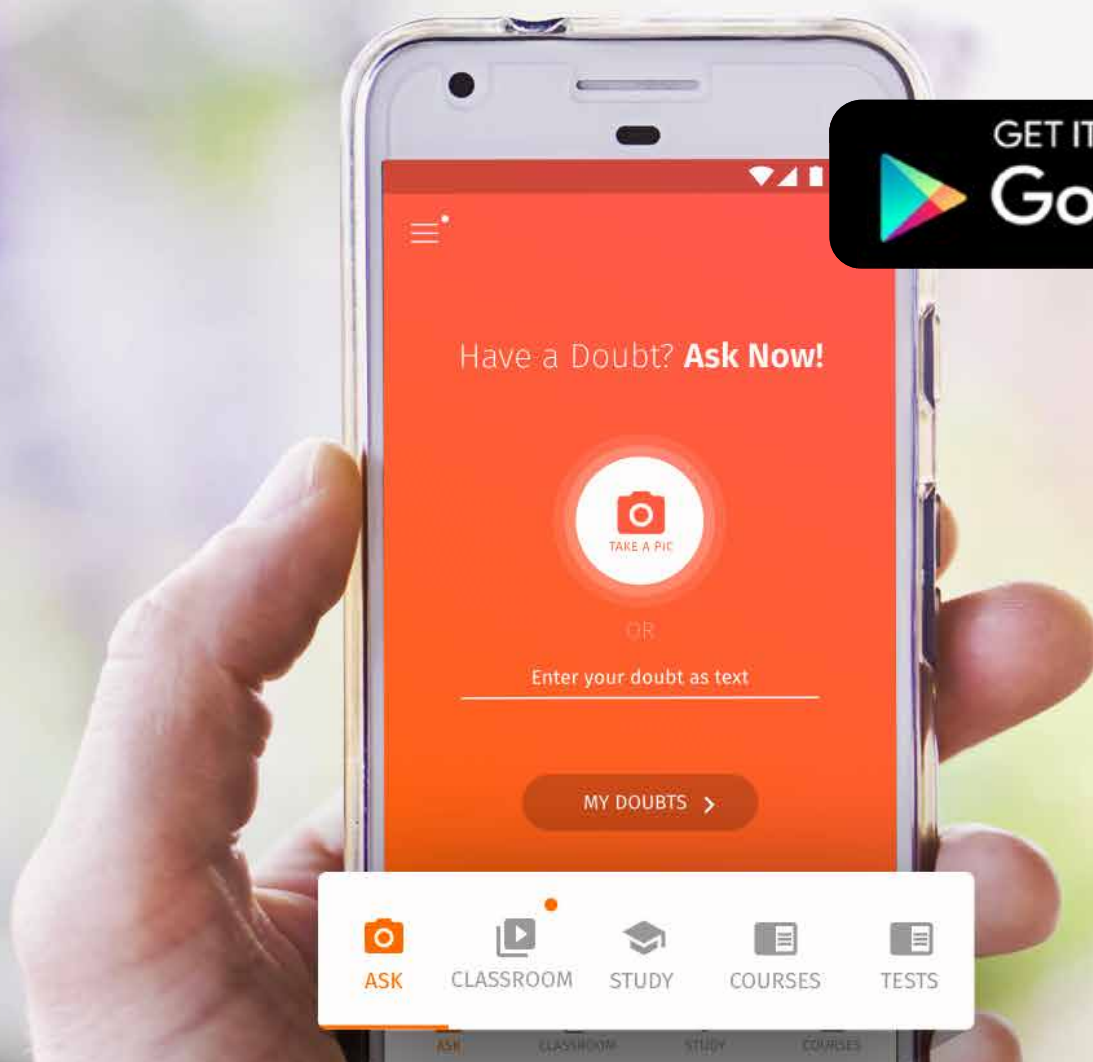
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## CBSE-VIII Chapter-13

### Sound

1. Fill in the blanks:

- Sound is caused by a source that \_\_\_\_\_.
- \_\_\_\_\_ cords are present inside the voice box.
- The sense organ that perceives sound is \_\_\_\_\_.
- The function of outer ear is to \_\_\_\_\_ sound waves.
- Inner ear transmits vibrations to brain by \_\_\_\_\_ nerve.

**Solution:**

Vibrates, vocal, ear, collect, auditory.

2. How does a human being produces sound? Explain.

**Solution:**

When you sing a song, shout, speak, etc., put your hand on your throat. You will find a part of your throat moving up and down. This part of your throat is known as the **voice box** or **larynx**. The larynx or voice box is responsible for producing sounds in humans. It moves when you eat, chew and swallow something. The voice box consists of two vocal chords. These chords are arranged in such a manner that there is a small gap between them. This small gap allows air to pass through. When we speak, air is forced into this small gap by the lungs. (larynx grows larger in boys reaching puberty and called adam's apple).

3. Sita felt some irritation in her ears and put a needle into her ears to remove it. Can it be dangerous?

**Solution:**

It is very dangerous to put a sharp, pointed or hard thing into our ears. It is so because outer part of the ear channels vibrations down to a thin membranous structure called the eardrum which is stretched very tightly and is flexible but delicate tissue. Any of the above mentioned objects can damage the eardrum. Damaged eardrum in turn can impair the hearing process.

4. Name the instrument and its category also among musical instruments.



**Solution:**

It is a violin and it belongs to category of stringed instruments.

5. Write the correct words by putting letters in correct sequence:

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- (i) nlyaxr
- (ii) sonei

**Solution:**

- i) larynx
- ii) noise

**6. Fill in the blanks:**

- a. The \_\_\_\_\_ of a note in musical scale tells you how high or how low it is.
- b. Humans cannot hear sounds with frequency higher than \_\_\_\_\_ hertz.
- c. The voice box is located at the upper end of \_\_\_\_\_ .
- d. Slower vibrations are also known as \_\_\_\_\_ .
- e. Movement of a body from one extreme position to the other and back is called an \_\_\_\_\_ .

**Solution:**

Pitch, 20000 Hz, trachea, oscillations, oscillation.

**7. How does an ultrasound machine work in detecting pregnancy or tumor?**

**Solution:**

Ultrasonic sound waves have frequency higher than 20000 Hz and are used to investigate structures inside human body. These waves can penetrate human tissue and get reflected back. The reflected rays from the tissues are interpreted by the ultrasound machine and shown on the monitor. So, they can be used to check that a baby is developing normally inside mother's body or a tumor and its size in human body.

**8. A Veena player tunes his instrument before a concert. What is this tuning all about?**

**Solution:**

A veena player tunes his instrument before a concert because if he wishes to raise the pitch of a string, he must tighten the string since tighter string will vibrate faster to produce high pitch of the sound while reverse will happen if he loosens string.

Tuning of stringed musical instrument means tightening or loosening the strings with the help of **pegs** provided in it.

**9. The image shows a pair of musical instruments. Name them and their category.**



**Solution:**

They are congo and bongo. They belong to group of percussion instruments.

**10. Write the correct words by putting letters in correct sequence:**

- (i) reeuqcfyn

(ii) duplimate

**Solution:**

i) frequency

ii) amplitude





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