

## Long Answer Questions

**Q. 1. How is sound produced and how is it transmitted and heard by us? [NCERT Exemplar]**

**Ans.** Sound is produced due to the to and fro or back and forth motion of an object known as vibration. When a tightly stretched band is plucked, it produces sound. When it stops vibrating, it does not produce sound.

Sound waves enter the ears and travel down a canal at the end of which is a thin, tightly stretched membrane called eardrum. As the sound wave strikes the eardrum, it vibrates and the vibrations reach the inner ear which sends signals to the brain. The brain interprets the signals and we hear the sound.

**Q. 2. Suggest four measures to limit noise pollution in your locality. [NCERT Exemplar]**

**Ans. a.** Trees must be planted along the roads and around the buildings.

**b.** Use of horns should be minimised.

**c.** Silencers must be installed in transport vehicles and industrial machines.

**d.** TV and music systems should be run at low volumes.