

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Sound

Q1. How is sound produced in Sitar?

Ans. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Q2. Why are the voices of men, women and children different?

Ans. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Q3. How can you show that a sounding tabla is vibrating?

Ans. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Q4. How can we distinguish between a man's voice and a woman's voice even without seeing them?

Ans. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Q5. What can be done along the roads to reduce noise pollution caused by traffic from reaching the residents of the area?

Ans. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Sound

Q1. How is sound produced in Sitar?

Ans. When we pluck the string of an instrument, like the sitar, the sound that we hear is not only that of the string. The whole instrument is forced to vibrate, and it is the sound of the vibration of the instrument that we hear.

Q2. Why are the voices of men, women and children different?

Ans. The vocal cords in men are about 20mm long. In women these are about 5mm shorter. Children have very short vocal cords. This is the reason why the voices of men, women and children are different.

Q3. How can you show that a sounding tabla is vibrating?

Ans. If we put some grains on the membrane of sound producing tabla, the grains will start jumping up and down showing that the tabla membrane is vibrating while producing sound.

Q4. How can we distinguish between a man's voice and a woman's voice even without seeing them?

Ans. We can distinguish between a man's voice and a woman voice even without seeing them. This is because the voice of a woman has a higher frequency and is shriller than that of a man.

Q5. What can be done along the roads to reduce noise pollution caused by traffic from reaching the residents of the area?

Ans. Trees must be planted along the roads and around buildings to cut down on the sounds reaching the residents, thus reducing the harmful effects of noise pollution.