

Asset Practice Answers: Science

**1. How long does it take to sing the Indian National Anthem?**

**A.** 10 seconds

**B. 1 minute**

**C.** 5 minutes

**D.** 10 minutes

**2. How will you change a cup of curds (dahi) to milk?**

**A.** Add a little milk to the curd.

**B.** Add a little salt to the curd.

**C.** Add a little sugar to the curd.

**D. We cannot change curd into milk.**

**3. Which of these works on electricity and gives out sound?**

**A.** A gas stove **B. A doorbell C.** A bicycle

**D.** An electric heater

**4. Manan had to go to the doctor in the middle of the day from school because something happened to him. His doctor asked him to get a check-up and Manan got the following image in the report.**

**What may have happened to Manan? A.** He got fever due to a mosquito bite.

**B.** He cut his skin and started bleeding.

**C. He fell down and injured a body part.**

**D.** He felt weak because of lack of food.

**5. Avni, Robbins and Mohan were having a discussion on ''What would happen if we didn't have a tongue?'' This is what each of them said -**

**Avni - ''We would not be able to taste the food we eat.'' Robbins - ''We would not be able to speak properly.''**

**Mohan - ''We would be able to taste food, but would not be able to digest it properly.'' Who among them is likely to be correct?**

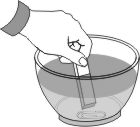
**A.** Only Avni

**B.** Only Robbins

**C.** Only Mohan

**D. Both Avni and Robbins**

**6. Shyamla saw that a paper clip was attracted by a magnet. She dropped the clip into a bowl of water and brought the magnet close to it. What was she trying to find out?**



**A. If water blocks the magnet from pulling the clip.**

**B.** If the water bowl can pull the magnet.

**C.** If the magnet gets wet by the water.

**D.** If the magnet could pull the water.

**7. Rashi's aunt was trying to light the cooking gas stove to boil some water. However, she found that the gas stove was not lighting up. Rashi thought of a few reasons for this happening.**

***1. There was no electric supply.***

**2. The gas cylinder was used up.**

**3. It was too cold for the gas to light up.**

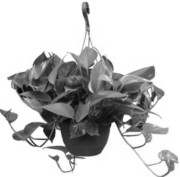
**4. The gas lighter was not working. Which of these could be correct?**

**A.** 1, 2 and 4

**B.** 1, 3 and 4

**C. Only 2 and 4**

**D.** 1, 2, 3 and 4

**8.** 

**A plant is watered daily and it has grown as shown in the picture above. What will happen if the plant is not given water for a day?**

**A.** Its leaves will fall off.

**B. It will still be able to live.**

**C.** It will die that same day.

**D.** Its height will decrease.

**9.**

**The weight of this football is 350 grams. What will be the weight of the football with air in it?**

**A.** Only 350 grams because air has no weight.

**B. More than 350 grams because air has weight.**

**C.** Less than 350 grams because air makes things lighter.

**D.** Cannot be sure because the weight depends on the size of the football.

**10. Supriya planted a few mustard seeds in a pot of fresh soil. After a few days plants of both mustard and coriander grew out. She had not planted any coriander seeds. Which of these could explain how the coriander plants grew out?**

**A.** Coriander plants do not require any seeds to grow.

**B. The soil already contained coriander seeds inside it.**

**C.** Coriander plants can easily grow out of mustard seeds.

**D.** She planted coriander seeds instead of mustard seeds.

**11. Rajan wants to check if adding ice to water makes the water cooler or not. Which of the following**

**MUST he do before adding ice to water?**

**A.** Measure the amount of water he has used in the experiment.

**B.** Measure the amount of ice he has used in the experiment.

**C. Measure the temperature of water before adding ice to it.**

**D.** Measure the temperature of the ice cube he is using.

**12. Why are circuses conducted in tents made of cloth rather than in buildings made of bricks and cement?**

**A. It is easy to shift the cloth tents from one place to another.**

**B.** The cloth tents will not absorb water and become wet.

**C.** Cloth tents will allow the flow of air and keep the place cool.

**D.** It is easy to clean the cloth tents regularly with water.



**Science**

1. B: Do you have a stopwatch? You should try this! Start the stopwatch just as you are about to start singing the national anthem and stop it just as you finish the anthem. You will find that it takes just 1 minute to sing it. You should put the stopwatch on for 5 minutes and see how long that is.

2. D: Have you ever seen how curds are made? Ask your parents to show you how curds are made. Curds are made from milk. Ask your parents if milk can be changed back to curds. You will find that it cannot! Milk can change to curds but curds cannot change back to milk. Adding milk to curds will not change the curds back to milk.

3. B: Check the question once again - it says something that works on electricity and gives out sound. A gas stove and a bicycle do not use electricity. Electric heater uses electricity but it does not give out any sound. A doorbell works on electricity and it also gives out sound.

4. C: If you get malaria or cut your skin, your doctor will not need to check your bones. The image in the question is of an X-ray that is used to see what your bones look like. Your doctor will need to check your bones in case you fall and may have broken a bone. She will not need to check your bones if you become weak due to a lack of food. Hence, option D is incorrect.

5. D: The tongue in our mouth helps us taste the food we eat and helps us speak. The saliva in our mouth helps us digest our food a little, but the tongue does not. So, option B is incorrect and option D is the only correct answer.

6. A: Shyamala already knew that the paper clip was attracted by the magnet. She put the clip in water and then brought the magnet close to the pin. Earlier she would have kept the pin outside water and so air would have been present between the magnet and the clip. So in water she was most trying to check if the magnet can still attract the pin with water around or if the water blocked the magnet from pulling the clip. If she wanted to check if the magnet gets wet by water or not, she could have just dipped the magnet in water without putting the clip inside.

7. C: The gas stove does not work on electricity; hence, 1 cannot be a problem. The gas stove can light up no matter what the temperature. Hence, 3 cannot be a problem either. Thus, options A, B and D are incorrect. The gas cylinder could be used up or the gas lighter could have stopped working. Hence, option C is the only correct answer.

8. B: Have you ever watered a plant? Try not watering it for a day and see what happens. You will find that it still remains alive. There will be some water in the soil in the pot that it will be able to use and so it will not die. Nor will its leaves fall off.

9. B: The weight of the football is 350 grams. When air is put into it, something is added to the football. Hence, option B is correct. No matter how small or big the ball is, the weight of the football and the air will be more than the weight of ONLY the football. Thus, option D is incorrect.

10. B: Most plants grow from their seeds. If there are no original plant parts, then the same type of plant will not be able to grow. The soil must have had some coriander seeds in it - this is the only way that coriander plants would have grown. Coriander plants can NEVER grow from mustard seeds naturally. Try sprouting mustard seeds yourself. They will always grow into mustard plants. Hence, option C is incorrect.

11. C: If you want to check whether something makes water cooler, you should do it in 3 steps. Step 1 - check the temperature of the water, step 2 - add the substance (ice in this case) and step 3 - measure the temperature of the water after adding it. Measuring the temperature of the ice cube will not help to check whether it has made the water cooler. Hence, option D is incorrect.

12. A: Circuses are held in a city for around a month. They then move to a different city. They have to keep moving from one place to another like this every few days and so it is not possible for them to make buildings of bricks and cements. The material of which the tents are made should be such that they can be easily built at any given place, broken down whenever required and carried to another place. Whether it be tents made of cloth or building made of brick, air will flow and so that cannot be the reason.