



# Nishant eAcademy

## CBSE Sample Paper Class 7 Science 2020-21

Subject: Science Class: 7 Maximum Marks: 80 Duration: 2 hours

Section A: Multiple Choice Questions (1 mark each)

1. Which of the following is a renewable resource? (a) Coal (b) Natural gas (c) Solar energy (d) Petroleum
2. Which of the following is a non-living organism? (a) Bacteria (b) Virus (c) Fungi (d) Rock
3. Which of the following processes helps in the exchange of gases in plants? (a) Respiration (b) Photosynthesis (c) Transpiration (d) Digestion

Section B: Short Answer Type Questions (2 marks each)

4. Define reflection and give an example from everyday life.
5. State three ways in which we can conserve water.
6. What is the function of the nucleus in a cell?

Section C: Long Answer Type Questions (3 marks each)

7. Explain the process of digestion in humans.
8. Differentiate between renewable and non-renewable resources. Give two examples of each.
9. How does sound travel through solids, liquids, and gases? Explain with examples.

Section D: Application-based Questions (5 marks each)

10. A student conducted an experiment to determine which material is the best conductor of heat. He took three metal rods made of aluminum, iron, and copper. He placed one end of each rod in a candle flame for the same duration and observed the temperature rise at the other end. The results are shown below:

Aluminum: 10°C Iron: 15°C Copper: 20°C

Based on these results, which metal is the best conductor of heat? Explain your answer.

11. A student conducted an experiment to show the effects of air pressure. He took an empty plastic bottle with a screw cap and made a small hole in it. He covered the hole with his thumb and squeezed the bottle. As he released his thumb, water came out forcefully from the hole. Explain the phenomenon observed by the student.
12. Draw a labeled diagram of the human respiratory system and explain the process of respiration.