



# Nishant eAcademy

## CBSE Sample Paper Class 7 Science 2022-23

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

### Section A: Multiple Choice Questions (1 mark each)

1. Which gas is essential for respiration? (a) Oxygen (b) Nitrogen (c) Carbon dioxide (d) Hydrogen
2. The process of conversion of a solid directly into a gas is called: (a) Sublimation (b) Condensation (c) Evaporation (d) Melting
3. Which of the following is a chemical change? (a) Melting of ice (b) Boiling of water (c) Rusting of iron (d) Dissolving salt in water

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

4. What is the function of the stomata in the leaves?
5. Differentiate between a physical change and a chemical change with examples.
6. Why do we see a rainbow after rain?

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

7. Explain the process of photosynthesis in plants.
8. How does the human respiratory system work? Describe the process of inhalation and exhalation.
9. What is an electric circuit? Draw a simple circuit diagram with a bulb, cell, and switch.

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

10. A student performed an experiment to show that air is necessary for burning. Describe the experiment and its observations.
11. Explain why wearing dark-colored clothes in summer is not comfortable, whereas wearing light-colored clothes is recommended.
12. A ball is dropped from the top of a building 30 meters high. Calculate the time it takes to reach the ground. (Take  $g$  as  $9.8 \text{ m/s}^2$ )