



Nishant eAcademy

CBSE Sample Paper Class 9 Science 2022-23

Subject: Science Class: 9 Maximum Marks: 80 Duration: 3 hours

Section A: Objective Type Questions (Each question carries 1 mark)

1. Which gas is released during photosynthesis? (a) Oxygen (b) Carbon dioxide (c) Nitrogen (d) Hydrogen
2. What is the chemical formula of water? (a) CO₂ (b) H₂O (c) O₂ (d) H₂SO₄

Section B: Short Answer Type Questions (Each question carries 2 marks)

3. Differentiate between speed and velocity.
4. Why does an electric bulb become hot when current passes through it?

Section C: Long Answer Type Questions (Each question carries 3 marks)

5. Explain the process of nitrogen fixation in the soil.
6. Describe the working of a concave lens with the help of a ray diagram.

Section D: Higher Order Thinking Skills Questions (Each question carries 5 marks)

7. An object is placed at a distance of 15 cm from a concave mirror of focal length 10 cm. Determine the position, size, and nature of the image formed.
8. Write the differences between prokaryotic and eukaryotic cells. Give an example of each.

Section E: Practical-Based Questions (Each question carries 5 marks)

9. A student wants to investigate the effect of light on the growth of a plant. Design an experiment to carry out the investigation and list the materials required.
10. Conduct an experiment to show the conversion of potential energy into kinetic energy. Draw a labeled diagram and explain the process.