



Nishant eAcademy

CBSE Sample Paper Class 10 Science 2020-21

Subject: Science Class: 10 Maximum Marks: 80 Duration: 3 hours

Section A: Objective Type Questions (1 mark each)

1. Which of the following is an example of a physical change? a) Burning of paper
b) Rusting of iron c) Digestion of food d) Melting of ice
2. The chemical formula of baking soda is _____. a) NaOH b) Na₂CO₃ c) NaHCO₃ d) H₂SO₄

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

3. What is the function of a catalyst in a chemical reaction?
4. Differentiate between exothermic and endothermic reactions.

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

5. Explain the working principle of a simple electric motor.
6. Differentiate between autotrophic nutrition and heterotrophic nutrition.

Section D: Long Answer Type Questions (5 marks each)

7. Write the steps involved in the process of binary fission in Amoeba.
8. Explain the process of photosynthesis in plants.

Section E: Practical-Based Questions (6 marks each)

9. The image formed by a convex lens is always virtual, erect, and magnified. Justify this statement with the help of a ray diagram.
10. Design an experiment to show the effect of temperature on the rate of reaction between sodium thiosulphate and hydrochloric acid.