



Nishant eAcademy

CBSE Sample Paper Class 9 Science 2020-21

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

Section A: Multiple Choice Questions (Each question carries 1 mark)

1. Which of the following statements is true about atoms? (a) Atoms are indivisible. (b) Atoms can be divided into protons, neutrons, and electrons. (c) Atoms are the smallest unit of matter. (d) Atoms are composed of only protons.
2. The process of conversion of a solid directly into a gas without passing through the liquid state is called: (a) condensation (b) evaporation (c) sublimation (d) melting

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

3. Explain the process of photosynthesis in plants.
4. State Archimedes' principle and explain how it is related to the buoyant force experienced by an object submerged in a fluid.

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

5. Differentiate between potential energy and kinetic energy. Give examples of each.
6. Draw a labeled diagram of the human respiratory system and explain the process of respiration.

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

7. A student conducted an experiment to determine the focal length of a convex lens by obtaining the image of a distant object on a screen. He obtained a blurred image on the screen. Explain the possible reasons for the blurred image and suggest corrective measures.



8. A car is moving on a straight road with a uniform speed. Describe the energy changes involved in its motion.

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

9. You are provided with the following materials: a battery, a bulb, wires, a switch, and connecting terminals. Set up a circuit to light the bulb using the given materials.
10. You are given a few iron nails and a copper wire. Suggest a way to find out which material is a better conductor of electricity and explain the steps involved in conducting the experiment.