

CLASS 6 — SCIENCE SAMPLE PAPER

Physics & Chemistry — Full Syllabus Practice Paper

Time Allowed: 2 Hours

Maximum Marks: 80

General Instructions: (i) All questions are compulsory. (ii) The paper is divided into sections as marked. (iii) Read each question carefully before answering. (iv) Draw diagrams wherever necessary.

SECTION A — Physics (Very Short Answer, 1 mark each)

Answer in one word or one sentence.

1. Define speed. What is its SI unit?
2. What is the difference between distance and displacement?
3. Name the three types of motion with one example each.
4. What is a shadow? State the condition necessary for shadow formation.
5. Differentiate between transparent, translucent, and opaque objects with examples.
6. What is reflection of light?
7. Draw a simple electric circuit with a cell, switch, and bulb.
8. What is the difference between a conductor and an insulator? Give two examples of each.
9. State two uses of an electric switch.
10. How many poles does a magnet have? Name them.
11. State the law of attraction and repulsion between magnetic poles.
12. List three materials that are attracted by a magnet.

SECTION B — Physics (Short Answer, 2 marks each)

Answer in 2-3 sentences.

1. A car travels 150 km in 3 hours. Calculate its speed.
2. Explain why we cannot see through an opaque object with the help of an example.
3. Describe an activity to show that a magnet attracts iron but not aluminium.
4. Why should we not touch an electric switch with wet hands? Explain briefly.
5. Explain the difference between periodic and non-periodic motion with examples.

SECTION C — Chemistry (Very Short Answer, 1 mark each)

Answer in one word or one sentence.

1. What are the two main sources of food?
2. Define herbivore, carnivore, and omnivore with one example each.
3. Name the five major components of food.

4. What is a balanced diet?
5. Name the deficiency disease caused by lack of Vitamin C.
6. Name the deficiency disease caused by lack of Vitamin D.
7. What is threshing? Where is it used?
8. Define winnowing.
9. What is sedimentation?
10. Define evaporation and condensation.
11. What is a reversible change? Give one example.
12. What is an irreversible change? Give one example.
13. Name the three states of water.
14. What are the main gases present in air? State their approximate percentages.

SECTION D — Chemistry (Short Answer, 2 marks each)

Answer in 2-3 sentences.

1. Explain the process of separating a mixture of sand and water.
2. Why do we need to sort materials into groups? Give two reasons.
3. Describe the water cycle in your own words with the help of a diagram.
4. Differentiate between fibre and yarn.
5. Explain why curdling of milk is an irreversible change.
6. List any four deficiency diseases along with the vitamin/mineral responsible.

SECTION E — Long Answer (3-5 marks each)

Answer in detail with diagrams where necessary.

1. Explain any five methods used to separate the components of a mixture, with one example of each.
2. What is a balanced diet? Explain why it is important for the human body, and describe what happens if a person does not get a balanced diet.
3. Describe the different types of motion (rectilinear, circular, periodic) with two real-life examples for each type.
4. Explain the working of a simple electric circuit and describe two applications of electricity in daily life.
5. Draw a labelled diagram of the water cycle and explain each step involved.