

Name of the School: _____

SUMMATIVE ASSESSMENT – I (2026–27)

Class VIII — PHYSICAL SCIENCE (General Science – Paper I)

English Medium

Model Question Paper — Set A

Time: 1 Hour 30 Minutes

Max. Marks: 40

Name of the Student: _____ Roll No.: _____

Syllabus covered: Ch. 1 Force, Ch. 2 Friction, Ch. 3 Synthetic Fibres and Plastics, Ch. 4 Metals and Non-metals, Ch. 5 Sound, Ch. 6 Reflection of Light by Plane Surfaces, Ch. 7 Coal and Petroleum

Instructions:

1. Part A (30 marks) is to be answered in the answer booklet in the first 1 hour 10 minutes.
2. Section I: Q.1–6 — answer all, 1 mark each. Section II: Q.7–10 — answer all, 2 marks each.
3. Section III: Q.11–14 — each question has internal choice; answer (a) or (b). 4 marks each.
4. Part B (10 marks) is to be answered on the question paper itself in the last 20 minutes.
5. Draw neat, labelled diagrams wherever necessary.

PART – A

Time: 1 Hour 10 Minutes Marks: 30

SECTION – I

Note: Answer ALL the questions. Each question carries 1 mark. ($6 \times 1 = 6$)

1. What is force? Write its SI unit.
2. What is friction?
3. Why is nylon used to make ropes and fishing nets?
4. Name a metal that is a liquid at room temperature.
5. What is the audible range of frequencies for the human ear?
6. Name any two useful products obtained from petroleum.

SECTION – II

Note: Answer ALL the questions. Each question carries 2 marks. ($4 \times 2 = 8$)

7. Why are ball bearings used in machines like bicycles and fans?
8. What are thermoplastics and thermosetting plastics? Give one example of each.
9. Why is sodium stored in kerosene?
10. State the two laws of reflection of light.

SECTION – III

Note: Answer ONE question (a or b) from each of Q.11 to 14. Each question carries 4 marks. ($4 \times 4 = 16$)

11. (a) Explain contact forces and non-contact forces with two examples each.

OR

(b) “Friction is both a friend and a foe.” Explain with examples.

12. (a) Write any four differences between metals and non-metals based on their physical properties.

OR

(b) Why is plastic harmful to the environment? Explain the “4R” principle to reduce plastic pollution.

13. (a) Describe an activity to show that sound needs a medium to travel. Draw a neat diagram.

OR

- (b) What is noise pollution? Write its harmful effects and any three ways to reduce it.
14. (a) Draw a ray diagram to show the formation of the image of an object in a plane mirror. Write the characteristics of the image. How many images are formed when two plane mirrors are placed at 60° to each other?

OR

- (b) How is coal formed? Name any four products obtained from coal and write one use of each.

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PART – B

Time: 20 Minutes

Marks: 10

I. Multiple Choice Questions

Choose the correct answer and write its letter in the bracket. ($5 \times 1 = 5$)

1. The force that opposes motion between two surfaces in contact is []
(A) gravity (B) friction (C) magnetic force (D) muscular force
2. Rayon is made from []
(A) petroleum (B) coal (C) wood pulp (D) silk worms
3. The metal commonly used for making electric wires is []
(A) iron (B) copper (C) mercury (D) sodium
4. Sound cannot travel through []
(A) water (B) air (C) steel (D) vacuum
5. Coal was formed from []
(A) dead animals in the sea (B) plants buried under the earth long ago
(C) rocks (D) volcanic lava

II. Fill in the Blanks

($5 \times 1 = 5$)

6. The SI unit of force is _____.
7. Friction can be reduced by using _____ such as oil and grease.
8. The property of metals by which they can be drawn into wires is called _____.
9. The number of vibrations per second is called _____.
10. The angle of incidence is always equal to the angle of _____.

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