

SEVEN STAR INTERNATIONAL SCHOOL, BANI

Monthly Test

Class: 7

Subject: Science

Max. Marks: 30

Section A: Multiple Choice Questions ($6 \times 0.5 = 3$ Marks)

1) Choose the correct option

1. Scientific exploration of flight was inspired by:
 - A. movement of Sun
 - B. flying of paper plane
 - C. blooming of flowers
 - D. shining of stars
2. Primary goal of science is:
 - A. to memorise the known facts
 - B. to study established theories
 - C. to observe things and making new discoveries
 - D. to cross verify historical events
3. Which of the following is a reversible reaction?:
 - A. Stretching of rubber band
 - B. Burning of paper
 - C. Cooking food
 - D. Rusting of iron
4. Find the odd one out:
 - A. Stretching of rubber band
 - B. Inflating a balloon
 - C. Changing the shape of dough
 - D. Formation of clouds
5. A torch battery that runs out is an example of:
 - A. reversible change
 - B. irreversible change
 - C. no change
 - D. physical change
6. In which state does water evaporated from sea returns to the ground?:
 - A. Gas
 - B. Liquid
 - C. Both (A) and (B)
 - D. Either (A) or (B)

Section B:

2) Fill in the Blanks ($6 \times 0.5 = 3$ Marks)

1. Study of bird wings inspired early explorations of _____.
2. Observing _____ helped early humans to tell time.
3. Changes such as _____ is an irreversible change.
4. Shadows help us in understanding the concept of _____.
5. _____ is a good conductor of electricity.
6. Rotation of Earth on its axis is responsible for _____ cycles.

Section C:

3) True or False ($4 \times 1 = 4$ Marks)

1. Metals conduct electricity.
2. Process of melting slows down when heat is involved.
3. In early times, the position of shadow of Sun was used to measure the time.
4. The movement of the Moon around Earth causes day and night. _____

Section D:

4) Match the Following ($4 \times 1 = 4$ Marks)

Match Column-I with Column-II:

- | | |
|-----------------|----------------------------------|
| a) Bird's wings | 1) Inspired aircraft Design |
| b) Water Cycle | 2) Evaporation and precipitation |
| c) Metals | 3) Sundial |
| d) Shadow | 4) Good conductor of Electricity |



Section E:

Assertion and Reason ($2 \times 1 = 2$ Marks)

Directions: Mark (A) if both are true and R is correct explanation, (B) if both are true but R is not the explanation, (C) if A is true but R is false, (D) if A is false but R is true.

- 5) Assertion (A): Water condenses faster when heated.
Reason (R): Heat gives energy to water molecules to escape into air.
- 6) Assertion (A): A weathering of rock is an irreversible change.
Reason (R): Weathering occurs due to action of wind and water.

Section F:

Short Answer Questions ($3 \times 1 = 3$ Marks)

- 7) How are shadows formed?
- 8) Define eclipse.
- 9) Why burning of wood is irreversible change?

Section G:

Long Answer Questions ($3 \times 2 = 6$ Marks)

- 9) How does understanding the properties of different materials help in everyday life?
- 10) Scientific experiments and observations can lead to a deeper understanding of the environment and human activities. Justify this statement
- 11) How human activities affect the environment?

Section H:

12) Case Study ($5 \times 1 = 5$ Marks)

Read the following passage and answer the questions that follow:

"Some changes are slow such as rocks breaking into pebbles while others are fast like burning a candle. Combustion, cooking and rusting are examples of irreversible changes. On the basis of reversibility, changes can be categorized into two types: Reversible changes, where a substance can be restored to its initial state, and Irreversible changes, where it cannot be restored."

- a) Give one example of a slow change mentioned in the text.
- b) Name two examples of irreversible changes provided in the passage.
- c) Define a reversible change based on the text.
- d) Is the ripening of fruit a reversible or irreversible change?
- e) Which type of change is combustion?

4. (a) \rightarrow (i) B \rightarrow (iii) C \rightarrow (iv) D \rightarrow 2
(b)