

SATISH CHANDRA MEMORIAL SCHOOL
PRACTICE TEST (2025-26)
CLASS-VI
SUBJECT- SCIENCE

TIME: 40 MINUTES

FULL MARKS: 14

➤ **Case Study: 1** (7 x 1=7)

During a morning walk in a community park, Ananya noticed several activities happening around her:

- A gardener was pushing a lawn mower straight across the grass.
- A merry-go-round in the play area was turning smoothly around its central axis.
- A child was gently rocking on a wooden rocking horse.
- A runner was jogging at a constant speed along a circular running track.

1. The motion of the gardener pushing the lawn mower in a straight line is an example of:

- A. Circular motion
- B. Rectilinear motion
- C. Periodic motion
- D. Oscillatory motion

2. The motion of the runner jogging along the round track is:

- A. Rectilinear motion
- B. Rotational motion
- C. Circular motion
- D. Oscillatory motion

3. The backward and forward movement of rocking of the child on the wooden horse shows:

- A. Circular motion
- B. Rectilinear motion
- C. Oscillatory motion
- D. Rotational motion

4. Assertion (A): The motion of the Earth revolving around the Sun is periodic motion.

Reason (R): The Earth takes a fixed time (365.25 days) to complete one full orbit around the Sun.

- A. Both A and R are true, and R is the correct explanation of A.
- B. Both A and R are true, but R is not the correct explanation of A.
- C. A is true, but R is false.
- D. A is false, but R is true.

5. Assertion (A): The spinning merry-go-round in the playground undergoes rectilinear motion.

Reason (R): The merry-go-round turns around a fixed central axle without leaving its position in the park.

Choose the correct option:

- A. Both A and R are true, and R is the correct explanation of A.
- B. Both A and R are true, but R is not the correct explanation of A.
- C. A is false, but R is true.
- D. Both A and R are false.

6. Match the items in Column A with their correct type of motion in Column B:

Column A	Column B
a. A child cycling along a circular road of a park	1. Rotational motion
b. A train moving along a straight track	2. Circular motion
c. A spinning globe	3. Oscillatory motion
d. The pendulum of a wall clock	4. Rectilinear motion

Choose the correct option:

- A. a-2, b-4, c-1, d-3
- B. a-4, b-3, c-2, d-1
- C. a-2, b-1, c-4, d-3
- D. a-1, b-4, c-2, d-3

7. Evaluate the following statements:

Statement 1: A marble rolling down a flat, straight slope shows both rotational and rectilinear motion.

Statement 2: Standard measurement units are necessary to ensure uniform measurements across the world.

Statement 3: The movement of a bird's wings flapping rapidly up and down is an example of circular motion.

- A. Statement 1 and 2 are correct, but Statement 3 is incorrect.
- B. Statement 1 and 3 are correct, but Statement 2 is incorrect.
- C. Statement 2 and 3 are correct, but Statement 1 is incorrect.
- D. All statements are correct.

➤ **Case Study: 2** (7×1=7)

<u>Student</u>	<u>Diet</u>	<u>Symptoms</u>	<u>Likely Deficiency</u>
Aarav	Avoids green and yellow vegetables and eats	Poor vision in dim light; dry skin.	Vitamin A

	very few fruits.		
Diya	Consumes very little citrus fruit and fresh vegetables.	Bleeding gums; slow healing of small wounds.	Vitamin C
Rohan	Frequently skips iron-rich foods and mainly eats a lot of refined grains and processed food.	Tiredness, weakness and pale appearance.	Iron
Ishita	Consumes very little vitamin K-rich food.	Cuts take unusually long to stop bleeding.	Vitamin K
Vivaan	Diet lacks iodised salt and contains few iodine-rich foods.	Swelling in the neck and enlargement of the thyroid gland.	Iodine
Meera	Diet contains very few dairy products, pulses, nuts or seeds.	Muscle cramps and weakness; signs suggesting poor nerve and muscle function.	Calcium

8. Compare Diya and Ishita.

Statement 1- Both students have symptoms involving bleeding.

Statement 2- The vitamin deficiency in both cases has exactly the same role in body functions.

Statement 3- Their deficiencies involve different vitamins.

Which statements are correct?

- A. Statement 1 only
- B. Statements 1 and 3 only
- C. Statements 2 and 3 only
- D. Statements 1, 2 and 3

9. A student says, “If a person eats plenty of food, deficiency diseases cannot occur.” Which case most directly challenges this statement?

- A. Aarav, because he eats vegetables.
- B. Ishita, because all foods contain vitamin K.
- C. Rohan, because the quality and nutrient content of the diet matter, not merely the quantity of food.
- D. Vivaan, because all salts contain iodine.

10. Which pair best demonstrates that a nutrient may be linked to a specific body function rather than merely providing energy?

- A. Aarav—dim-light vision and vitamin A
- B. Rohan—energy and iron
- C. Diya—water and vitamin C
- D. Meera—sleep and calcium

11. A classmate groups calcium and iodine together because both are minerals. Why is this classification insufficient for predicting their deficiency symptoms?

- A. All minerals perform exactly the same function.
- B. Minerals do not occur in food.
- C. Only vitamins have specific functions.
- D. Different minerals have different roles in the body, so their deficiencies can produce different symptoms.

12. Rohan frequently skips iron-rich foods and mainly consumes refined grains.

Statement 1- His tiredness and pale appearance are consistent with iron deficiency.

Statement 2- His symptoms can be related to reduced oxygen-carrying capacity of blood.

Statement 3- Increasing vitamin C alone would correct the underlying nutrient deficiency.

Which statements are correct?

- A. Statements 1 and 2 only
- B. Statements 1 and 3 only
- C. Statements 2 and 3 only
- D. Statements 1, 2 and 3

13. Which dietary change would be most helpful for Diya?

- A. Eat more refined grains and processed food.
- B. Avoid fruit juice completely as it contains less dietary fibres.
- C. Eat more citrus fruits and fresh vegetables.
- D. Reduce fresh vegetable and citrus fruit intake.

14. Which student would benefit most from eating more dairy products?

- A. Aarav
- B. Diya
- C. Meera
- D. Vivaan