

CLASS VI – SCIENCE

ANNUAL EXAMINATION 2026–27

Time: 3 Hours

Maximum Marks: 80

General Instructions

1. All questions are compulsory unless an internal choice is given.
2. The question paper is divided into Sections A, B, C, D and E.
3. Read each question carefully before answering.
4. Draw neat and properly labelled diagrams wherever required.
5. Give examples wherever asked.

SECTION A – OBJECTIVE TYPE QUESTIONS

Q1. Choose the correct option. (10 × 1 = 10)

- (a) Which of the following is an important feature of scientific investigation?
A. Accepting every observation without questioning B. Asking questions and finding explanations through evidence C. Memorising all scientific facts D. Avoiding experiments
- (b) Which characteristic is useful for grouping plants?
A. Their ability to sing B. Presence or absence of flowers C. Their taste only D. Their age
- (c) Which nutrient is mainly responsible for growth and repair of the body?
A. Carbohydrates B. Proteins C. Vitamins D. Water
- (d) Which of the following objects is attracted by a magnet?
A. Wooden pencil B. Plastic scale C. Iron nail D. Rubber band
- (e) The standard unit used to measure length is:
A. centimetre B. metre C. kilometre D. inch
- (f) Which part of a plant generally absorbs water and minerals from the soil?
A. Flower B. Leaf C. Root D. Fruit
- (g) Which joint allows movement mainly in one direction, like the elbow joint?
A. Ball-and-socket joint B. Hinge joint C. Fixed joint D. Pivot joint
- (h) Which of the following is a characteristic of living organisms?
A. They never change B. They need food C. They cannot reproduce D. They do not respond to surroundings
- (i) Which change can generally be reversed?
A. Burning of paper B. Cooking food C. Melting of ice D. Rusting of iron
- (j) Which gas is present in the air in the largest amount?
A. Oxygen B. Carbon dioxide C. Nitrogen D. Water vapour

Q2. Fill in the blanks. (5 × 1 = 5)

A balanced diet contains all the essential _____ in appropriate amounts.

The two ends of a magnet are called its _____.

The SI unit of length is _____.

Green plants prepare their food mainly in the presence of sunlight, water and _____.

Air occupies _____.

Q3. State whether the following statements are True or False. (5 × 1 = 5)

All plants have exactly the same type of roots.

A magnet has two poles.

A curved line can be measured directly with a ruler without using any other method.

Animals depend directly or indirectly on plants for food.

Air is present only outdoors.

SECTION B – VERY SHORT ANSWER QUESTIONS

6 × 2 = 12 Marks

Q4. What is meant by **observation** in science? Give one example from everyday life.

Q5. Write any **two differences between herbs and trees**.

Q6. What is a **balanced diet**? Why is it important for our body?

Q7. What happens when:

- (a) two unlike poles of magnets are brought close to each other?
- (b) two like poles of magnets are brought close to each other?

Q8. Differentiate between **rest and motion** with one suitable example.

Q9. Write any **two characteristics of living organisms**.

SECTION C – SHORT ANSWER QUESTIONS

6 × 3 = 18 Marks

Q10. A student wants to find out whether a particular material is attracted by a magnet.

- (a) What should the student use for the investigation?
- (b) What observation should be recorded?
- (c) What conclusion can be drawn?

Q11. Explain the importance of the following components of food:

- (a) Carbohydrates
- (b) Proteins
- (c) Vitamins and minerals

Q12. Why is it important to use **standard units** while measuring length? Explain with an example.

Q13. Explain how the following help a plant:

- (a) Roots
- (b) Stem
- (c) Leaves

Q14. What is a **habitat**? Explain how the body features of an organism help it survive in its habitat. Give one example.

Q15. A piece of ice is kept outside a refrigerator and slowly changes into water.

- (a) What type of change is this?
- (b) Can the change be reversed?
- (c) Explain your answer.

SECTION D – COMPETENCY / APPLICATION-BASED QUESTIONS

4 × 4 = 16 Marks

Q16. Read the situation and answer the questions.

Riya observed two plants growing near her house. Plant A had a soft green stem and was comparatively small. Plant B had a thick, hard stem and was much taller.

- (a) Which plant is likely to be a herb?
- (b) Which plant is likely to be a tree?
- (c) Give one difference between their stems.
- (d) Why is classification of plants useful?

Q17. Case-Based Question

A family prepared a meal consisting of rice, dal, vegetables, curd and fruits. Their teacher said that eating a variety of foods is important for maintaining good health.

- (a) Which food in the meal is a good source of carbohydrates?
- (b) Which food is rich in proteins?
- (c) Why should vegetables and fruits be included in our diet?
- (d) What is meant by a balanced diet?

Q18. Observe the situation and answer.

A child places a magnet near an iron nail, a wooden pencil, a plastic scale and a steel paper clip.

- (a) Which two objects are likely to be attracted by the magnet?
- (b) Which objects are non-magnetic?
- (c) What does this activity help us understand?
- (d) If the same pole of another magnet is brought close to the first magnet's same pole, what will happen?

Q19. Application-Based Question

A student measures the length of a table using a ruler. In the first attempt, the ruler's zero mark is not placed at the end of the table. In the second attempt, the ruler is placed correctly.

- (a) Which measurement is likely to be more accurate?
- (b) Why should the zero mark be placed properly?
- (c) What should be done if the zero mark of the ruler is damaged?
- (d) Write one precaution while measuring length with a ruler.

SECTION E – SOURCE / EXPERIMENT / DIAGRAM-BASED QUESTIONS

14 Marks

Q20. Read the passage and answer the questions.

A group of students wanted to know whether a plant needs sunlight for healthy growth. They kept two

similar plants. Plant A was kept in sunlight and Plant B was kept in a dark place. Both plants were given the same amount of water. After several days, the students compared the two plants.

- (a) What question were the students investigating? **(1)**
- (b) Why was it important to keep the amount of water the same for both plants? **(1)**
- (c) What observation would help the students compare the effect of sunlight? **(1)**
- (d) What is the importance of conducting such investigations in science? **(1)**

Q21. Diagram-Based Question

Draw a **neat labelled diagram of a plant** showing the following parts:

- Root
- Stem
- Leaf
- Flower

Also write **one function of any two labelled parts**. **(4)**

Q22. Explain how you can measure the length of a **curved line** using a piece of thread and a ruler. **(3)**

Q23. Air is invisible, but we know that it is present around us. Give **three observations or activities** from everyday life that show the presence of air. **(3)**