

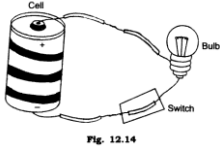
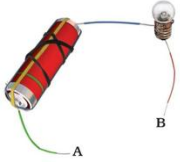
**DELHI PUBLIC SCHOOL JAMMU**  
**SESSION (2024-25)**  
**HALF YEARLY EXAMINATION**  
**SAMPLE PAPER**

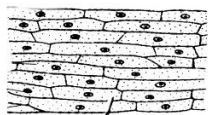
**Class: VI**  
**Subject: SCIENCE**

**Time: 3 hours**  
**Max. Marks: 80**


**General Instructions:**

- All the questions are compulsory.
- The question paper has 5 sections A, B, C, D and E.
- Section A has 20 Multiple Choice Questions (MCQs) carrying 1 mark each.
- Section B has 7 Short Answer-I (SA-I) type questions carrying 2 marks each.
- Section C has 5 Short Answer-II (SA-II) type questions carrying 3 marks each (50-80 words).
- Section D has 3 Long Answer (LA) type questions carrying 5 marks each (80-120 words).
- Section E has 4 Case-Study based questions (4 marks each) with subparts.
- An internal choice in 1Q of 3 marks and 1Q of 5 marks has been provided.

| SN | Section – A<br>Multiple Choice Questions   | Mar<br>ks |
|----|--|-----------|
| 1  | Plants usually reproduce through their_____ ?<br>a) seeds                      b) cells                      c) both a&b                      d) none of these   | 1         |
| 2  | The time period for which a living organism remains alive is called its_____?<br>a) excretion                      b) lifespan                      c) photosynthesis                      d) all of these   | 1         |
| 3  | Identify the type of circuit diagram given below.<br><br><small>Fig. 12.14</small><br>a) open circuit                      b) closed circuit                      c) switch/key                      d) none of these | 1         |
| 4  | If you are measuring the length of a curved path, which tool would you use?<br>a) Straight ruler                      b) Measuring tape                      c) Scale                      d) Divider  | 1         |
| 5  | Which part of the plant is known as the ‘food factory’?<br>a) Stem.                      b) Root.                      c) Leaf                      d) Flower  | 1         |
| 6  | Which part of the plant is known as the ‘food factory’?<br>a) Stem                      b) Root                      c) Leaf                      d) Flower  | 1         |
| 7  | Which of the following instruments is commonly used to measure the length of an object?<br>a) Thermometer                      b) Ruler                      c) Stopwatch                      d) Weighing scale   | 1         |
| 8  | Which organisms have the characteristics of both living and non-living?<br>a) Bacteria                      b) Viruses                      c) bacteria                      d) plants   | 1         |
| 9  | What should be connected in the gap between A and B to complete the circuit?<br><br>a) iron clip                      b) rubber                      c) plastic                      d) all of these                  | 1         |

|   |  |   |
|---|--|---|
| 10  | Which part of the plant develops into a fruit?<br>a) Seed                      b) Ovule                      c) Ovary                      d) Stamen   | 1 |
| 11  | What is the function of stomata in leaves?<br>a) Absorb water              b) Transport food              c) Exchange of gas              d) reproduction  | 1 |
| 12  | The growths that act like pillars and support the heavy spreading branches of a banyan tree are called_____<br>a. stilt roots                      b) prop roots                      c) tap roots                      d) none of these         | 1 |
| 13  | The distance between two cities is usually measured in:<br>a) Centimetres              b) Millimetres.              c) Meters                      d) Kilometres   | 1 |
| 14  | Identify the diagram given below.<br><br>a) stomatal cells              b) cells in an onion peel              c) bacterial cells              d) none of these | 1 |
| 15  | When we measure the length of an object, we find out:<br>a) How much space it occupies                      b) The time it takes to cover a distance<br>c) The distance between its two ends                      d) Its weight                  | 1 |
| 16  | In which part of the flower are the ovules found?<br>a) Stamen                      b) Pistil                      c) Sepal                      d) Petal  | 1 |
| <b>(Q17-Q20) Assertion and Reason Based Questions</b><br>In the following questions, a statement of assertion (A) is followed by a statement of reason (R). Mark the correct choice as:<br>a. Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A).<br>b. Both assertion (A) and reason (R) are true and reason (R) is not the correct explanation of assertion (A).<br>c. Assertion (A) is true but reason (R) is false.<br>d. Assertion (A) is false but reason (R) is true. |  |   |
| 17  | Assertion: Respiration is necessary for animals.<br>Reason: Fish use their gills to absorb oxygen from the air dissolved in water.   | 1 |
| 18  | Assertion: With the broken filament, bulb will never glow.<br>Reason: Current flows in a complete path.  | 1 |
| 19  | Assertion: Plants release a lot of water into the air through the process of transpiration.<br>Reason: The water is released through the leaves in the form of water vapour.   | 1 |
| 20  | Assertion: Footstep cannot be used as a standard unit of measurement.<br>Reason: Ancient units are not fixed in length and vary from person to person.   | 1 |
| <b>Section-B</b>  |  |   |
| 21  | What can be the consequences of a damaged root system?   | 2 |
| 22  | Explain how growth in living organisms differs from the increase in size of non-living things?   | 2 |
| 23  | Can we use aluminum foil as connecting wires in an electric circuit? Give reason.  | 2 |
| 24  | Can an object be in motion even if it still appears to be still? Give one example to support your answer.  | 2 |
| 25  | Why don't we get an electric shock when we touch the switch?   | 2 |
| 26  | The shoot of a plant grows towards light. Identify response and stimulus.  | 2 |
| 27  | Does a vehicle, while moving on a straight road, show a single type of motion only?  | 2 |
| <b>Section-C</b>  |  |   |
| 28  | Define Fertilisation. What happens to a flower after fertilisation?<br><b>OR</b>   | 3 |

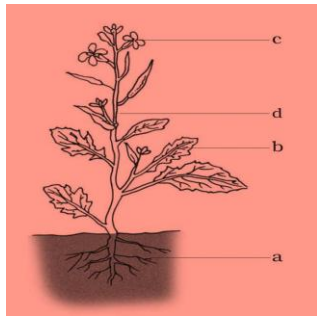
|                  |   |   |
|------------------|---|---|
|                  | What is the difference between making food by leaves and cooking of food in the kitchen?  |   |
| 29               | Give two reasons why conductors and insulators are equally important?   | 3 |
| 30               | a) Which kind of motion produces sound?<br>b) What kind of motion does a ball bouncing on the floor show?   | 3 |
| 31               | Draw a diagram showing lightening up of a bulb with an electric cell? Will electric current flow in a circuit if there is a gap between the two wires?  |   |
| 32               | How is respiration different from breathing?  |   |
| <b>Section-D</b> |   |   |
| 33               | Both copper and silver are conductors of electricity but only copper is used for making electric wires and not silver. Explain with a suitable reason.<br><b>OR</b><br>What is an electric circuit? What is the direction of flow of current in an electric circuit? Draw a circuit diagram showing an open circuit and a closed circuit. | 5 |
| 34               | a) Draw well labelled diagram of structure of leaf.<br>b) What is transpiration? Write two advantages of transpiration.   | 5 |
| 35               | What are some units of measurement that we commonly use in everyday life? How do they help us?  | 5 |

|                                   |   |   |
|-----------------------------------|---|---|
| <b>Section-E</b>                  |   |   |
| <b>Case Study based Questions</b> |   |   |
| 36                                | <b><u>Read the following paragraph and answer the following questions</u></b><br>We know that all living things take food. Part of food we eat is utilised for energy. The unused part of the food is the waste material. The waste material needs to be removed from the body of organisms. The process of removal of waste materials by a living Organism from its body is called excretion. The waste materials are excreted as urine, faeces and sweat. Carbon dioxide produced by animals during respiration, is released from the body through exhalation.<br>Plants also release carbon dioxide during respiration by tiny pores called stomata. Plants also produce some other waste products. These waste products are either stored in their different parts like leaves, bark and fruits, or are removed as various secretions like gums, resins and latex. Plants store waste products in such a way that they do not harm the plants.<br>a) The waste products in plants are stored in _____, _____ and fruits. (1)<br>b) Waste materials in animals is excreted as - (1)<br>a) faeces      b) sweat      c) urine      d) all of these<br>c) Why do you think the skin is considered an excretory organ in humans? What substances does it help to excrete? (2) | 4 |
| 37                                | <b><u>Observe the diagram given below and answer the questions that follows:</u></b><br><br>i) What is the effect of a fused bulb in a simple circuit? (1)<br>a) It makes the bulb glow brighter.      b) It causes the circuit to stop working<br>c) It allows more current to flow.      d) It reduces the brightness of the bulb.<br>ii) How many terminals does a bulb have? (1)<br>a) 1      b) 2      c) 3      d) 4<br>iii) What does it mean when a bulb is “fused”? (2)   | 4 |

38 **Read the following paragraph and answer the following questions:**

Sometimes, an object performs two or more types of motion at the same time. This type of motion is called multiple motion. A boy riding a bicycle is an example of multiple motion. A boy riding a bicycle is an example of multiple motion. The wheels of a bicycle rotate and at the same time move forward in a straight or curved path.

- i) The wheels of a bicycle exhibit \_\_\_\_\_ motion. (1)  
 ii) The rotation and revolution of earth is an example of \_\_\_\_ motion. (1)  
 a) multiple            b) linear            c) elliptical            d) none of these  
 iii) Give examples of multiple motion from your daily life (2)

39 **Observe the diagram given below and answer the questions that follows:**

- a. Label parts (d) and (a) of the diagram given above. (1)  
 b. Which of the following is not the primary function of stem? (1)  
 a) conduction of water    b) photosynthesis    c) Formation of branches    d) bears flowers and fruits  
 c. Give any two functions of root. (2)

### Reflection Box

|  |                       |                       |  |  |
|--|-----------------------|-----------------------|--|--|
| 1. How confident do you feel about your understanding of the topics covered in this assessment?      | A) Very Confident     | B) Somewhat Confident | C) Not Confident                             |  |
| 2. How well do you think you prepared for this assessment?   | A) Very Well          | B) Somewhat Well      | C) Not Well                                  |  |
| 3. What do you think you could have done differently to improve your performance on this assessment? | A) Studied thoroughly | B) Practiced more     | C) Asked for help from the teacher or peers. |  |