Name of the School: _____

SUMMATIVE ASSESSMENT – I (2026–27)

Class IX — BIOLOGICAL SCIENCE (General Science – Paper II)

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 Cell – Its Structure and Functions, Ch. 2 Plant Tissues, Ch. 3 Animal Tissues, Ch. 4 Transportation of Materials through Plasma Membrane, Ch. 5 Diversity in Living Organisms (Classification), Ch. 6 Sense Organs

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 × 1 = 6)

1. Who discovered the cell, and in which year?
2. What is the function of mitochondria?
3. Name the tissue responsible for the increase in length of a plant.
4. Define osmosis.
5. Who introduced the binomial system of nomenclature?
6. Which part of the eye controls the amount of light entering it?

SECTION – II

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

7. Write any two differences between a plant cell and an animal cell.
8. Write the functions of xylem and phloem.
9. What happens when dry raisins are placed in water for some time? Explain the reason.
10. Why do we find it difficult to recognise the taste of food when we have a cold?

SECTION – III

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

11. (a) Draw a neat labelled diagram of a plant cell.

OR

(b) Describe an activity to observe onion peel cells under a microscope. Write the precautions you take.

12. (a) Draw a neat labelled diagram of a neuron and write its functions.

OR

(b) What is epithelial tissue? Explain its types with one example each.

13. (a) Describe an experiment to demonstrate osmosis using a potato osmometer. Draw the diagram.

OR

(b) What is diffusion? Explain its importance in living organisms with examples.

14. (a) Draw a neat labelled diagram of the human eye.

OR

(b) Explain the five kingdom classification proposed by R.H. Whittaker with one example for each kingdom.

PART – B

Time: 20 Minutes Marks: 10

I. Multiple Choice Questions

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

1. The powerhouse of the cell is [ ]
   (A) nucleus (B) mitochondria (C) ribosome (D) Golgi body
2. The cell wall of a plant cell is made of [ ]
   (A) protein (B) cellulose (C) starch (D) lipid
3. The meristem present at the tips of stems and roots is [ ]
   (A) lateral (B) intercalary (C) apical (D) secondary
4. Blood is a type of [ ]
   (A) epithelial tissue (B) muscular tissue
   (C) connective tissue (D) nervous tissue
5. The basic unit of classification is [ ]
   (A) genus (B) family (C) species (D) order

II. Fill in the Blanks

(5 × 1 = 5)

6. The control centre of the cell is the _____.
7. The tissue that connects a muscle to a bone is called _____.
8. The movement of water through a semi-permeable membrane is called _____.
9. Bacteria belong to the kingdom _____.
10. The sense organ that helps in hearing and in keeping the balance of the body is the _____.

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