

Name of the School: _____

SUMMATIVE ASSESSMENT – I (2026–27)
Class X — BIOLOGICAL SCIENCE (Science – Part II)

English Medium

Model Question Paper — Set B

Time: 1 Hour 30 Minutes

Max. Marks: 40

Name of the Student: _____ Roll No.: _____

Syllabus covered: Ch. 1 Nutrition – Food Supplying System, Ch. 2 Respiration – The Energy Producing System, Ch. 3 Transportation – The Circulatory System, Ch. 4 Excretion – The Wastes Disposing System, Ch. 5 Coordination – The Linking System

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. $(6 \times 1 = 6)$

1. What is the function of stomata?
2. What is peristalsis?
3. Why do mountaineers carry oxygen cylinders at high altitudes?
4. What is lymph?
5. What is the role of ADH (vasopressin) in our body?
6. Name the parts of the hind brain.

SECTION – II

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

7. How are villi useful in the absorption of digested food?
8. Explain the role of the diaphragm in breathing.
9. Write any two differences between arteries and veins.
10. Write any two differences between phototropism and geotropism.

SECTION – III

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

11. (a) Describe the process of digestion of food in the stomach and the small intestine.

OR

(b) What are Kwashiorkor and Marasmus? Write their causes and symptoms.

12. (a) Describe an experiment to prove that carbon dioxide is released during respiration. Draw the diagram.

OR

(b) Draw a neat, labelled diagram of the human respiratory system.

13. (a) What is transpiration? Describe an experiment to demonstrate transpiration in plants.

OR

(b) Draw a labelled diagram of the human excretory system and write the functions of its parts.

14. (a) Draw a labelled diagram of the human brain and write the functions of any three parts.

OR

(b) What are endocrine glands? Write the location and functions of any four endocrine glands.

PART – B

Time: 20 Minutes

Marks: 10

I. Multiple Choice Questions

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

1. The products of the light reaction used in the dark reaction are []
(A) ATP and NADPH (B) oxygen (C) glucose (D) carbon dioxide
2. The energy currency of the cell is []
(A) glucose (B) ATP (C) ADP (D) NADP
3. The pacemaker of the heart is the []
(A) SA node (B) AV node (C) bundle of His (D) Purkinje fibres
4. Which of the following are excretory products of plants? []
(A) resins (B) gums (C) latex (D) all of these
5. The coiling of tendrils around a support is an example of []
(A) phototropism (B) thigmotropism (C) geotropism (D) hydrotropism

II. Fill in the Blanks

($5 \times 1 = 5$)

6. Bile juice is secreted by the _____.
7. In yeast, anaerobic respiration produces ethyl alcohol and _____.
8. The valve between the left atrium and the left ventricle is the _____ valve.
9. Urine is stored temporarily in the _____.
10. The gap between two neurons is called a _____.

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