

Time: 2 Hours 40 Minutes

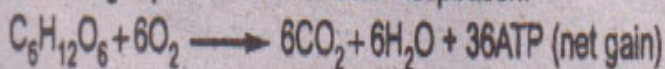
SECTION-B

Marks: 32

1. Attempt any eight of the following short questions. Each question carries 4 marks.

- i. How biologist can adopt agriculturist as a career? Give FOUR reasons.
- ii. Explain the living characteristics of virus.
- iii. Write contribution of Schleiden and Schwann in cell biology.
- iv. Briefly describe the structure of ground tissues in plants.
- v. Define interphase stage of cell cycle. Also write names of any TWO events of interphase.
- vi. How cytokinesis of animal cell is different from plant cell?
- vii. Write 4 steps of enzyme action.

viii. Following equation is of Aerobic Respiration.



Answer the following questions. (i) Write names of reactants given in above equation.
 (ii) Write names of two products in which organic food is completely breakdown.
 (iii) Write complete name of ATP.

ix. Distinguish between carbohydrates and proteins with the help of following table.

Properties	Carbohydrates	Proteins
Main sources		
Energy value		

- x. How do plants control transpiration?
- xi. Differentiate between pulmonary circulation and systematic circulation.

SECTION-C

Marks: 21

NOTE: Attempt any three of the following questions. Each question carries 7 marks.

2. i. Differentiate between ratio and proportion.
 ii. Why conservation of biodiversity is important? List FOUR reasons.
3. i. Highlight the differences between ribosome and cell wall of eukaryotic cell and prokaryotic cell.
 ii. Define mitotic apparatus in animal cells.
4. i. Justify that enzymes are specific in action.
 ii. Explain glycolysis as an important step of aerobic respiration.
5. i. Write down any THREE advantages of organic fertilizers.
 ii. Give any TWO differences between artery and vein with reference to their functions.