

M.Sc.(Botany) (CBCS Pattern) Semester-II
PSCBOTT05 - Paper-V - Plant Physiology and Biochemistry

P. Pages : 1

Time : Three Hours



GUG/W/24/11195

Max. Marks : 80

-
- Notes : 1. All questions are compulsory and carry equal marks
2. Draw well labelled diagrams wherever necessary.

1. Describe mechanism of CO₂ fixation through C₄ and CAM Pathways. 16

OR

Write on:

- a) Chemiosmotic-coupling hypothesis. 8
b) Photorespiration 8

2. Explain the process of Glycolysis & Describe factors affecting the rate of Respiration. 16

OR

Write on:

- a) Citric acid cycle. 8
b) Electron transport system. 8

3. Describe general properties and classification of Carbohydrates. 16

OR

Write on:

- a) Nitrogen cycle. 8
b) Sulfur & phosphate assimilation in plants. 8

4. Give brief account on Classification and Nomenclature of Enzymes. 16

OR

Write on:

- a) Mechanism of water transport through Xylem. 8
b) Phloem loading and unloading. 8

5. Write short note on:

- a) Light Harvesting Complex. 4
b) R. Q. 4
c) Properties of amino acid. 4
d) Lysozymes. 4
