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Reg. No.

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VI Semester B.Sc. Degree Examination, July/August - 2024

BOTANY

Plant Physiology and Plant Biochemistry

(Scheme NEP)

Paper : VIII



Time : 2½ Hours

Maximum Marks :60

Instructions to Candidates:

1. Answer All Parts
2. Draw diagrams wherever necessary

PART - A

A. Define/Explain any FIVE of the following in two or three sentences (5×2=10)

1. What is an amino acid? Give an example.
2. Draw a labelled sketch of stomatal apparatus.
3. Differentiate respiration from photorespiration.
4. What is senescence?
5. What are aquaporins ? Mention its role.
6. What is bolting? Which hormone is responsible?

PART - B

B. Write Critical notes on any FOUR of the following (4×5=20)

7. Glycolysis.
8. Munch mass flow hypothesis.
9. Vitamins.
10. Phytochrome
11. Cellulose - structure and function.

[P.T.O.]



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PART-C

C. Give comprehensive account on any THREE of the following. (3×10=30)

12. Define photophosphorylation. Explain non-cyclic photophosphorylation with a suitable sketch.
 13. What are growth regulators? Give a note on their role in Agriculture and Horticulture.
 14. Define Ascent of Sap. Explain physical theories associated with transport of water.
 15. Comment on;
 - a) Properties of Enzymes
 - b) nif genes of Rhizobium. (7+3)
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