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Reg. No. | | | | | | | | |

VI Semester B.Sc. Degree Examination, September - 2021

BOTANY

Plant Physiology - II

(CBCS Scheme Freshers and Repeaters 2016-17 and onwards)

Paper : VIII

Time : 3 Hours **Maximum Marks : 70**

Instructions to Candidates:

1. Answer **ALL** Parts.
2. Draw diagrams wherever necessary.

PART - A

A. Explain/Define any **TEN** of the following **in two or three sentences.** **(10×2=20)**

1. What are enzymes? Give example.
2. What is oxidative phosphorylation? Where does it occurs?
3. What is Leghaemoglobin? Mention its role.
4. Name any two synthetic auxins.
5. What are alkaloids? Mention its role.
6. Name the pigment molecules of Reaction centre of PS-I and PS - II.
7. Mention any two types of symbiotic associations of nitrogen fixation.
8. Differentiate the co-enzyme from co-factor.
9. What is scarification? Mention its types.
10. Distinguish photorespiration from respiration.
11. What is ammonification? Mention its significance.
12. Mention any two physiological roles of ABA.

PART - B

B. Explain critical notes on any **FOUR** of the following. **(4×5=20)**

13. Factors influencing enzyme action.
14. Photoperiodism.
15. Fermentation.

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16. Cyclic photophosphorylation.
17. Hydrotropism.
18. What are Gibberellins? Explain their role in plant growth.

PART - C

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

19. Explain the classification and mechanism of Enzymes.
20. Explain EMP pathway and add a note on its significance.
21. What are amino acids? Describe the methods of amino acid biosynthesis in plants.
22. Describe Calvin Cycle.
23. Explain briefly.
    a. Vernalization.
    b. Cytokinins.