M.Sc.DEGREE EXAMINATION,APRIL 2020
II Year IV Semester
Plant Physiology and Biochemistry

Time : 3 Hours **Max.marks :75**

Section A $(10 \times 2 = 20)$ Marks

Answer any **TEN** questions

1. Brassins
2. Cytokinins
3. Peptide bond
4. Glycolipid
5. Apoenzymes
6. Active site
7. Absorption Spectrum
8. Photoperiodism
9. Respiratory Quotient
10. Glyoxylate cycle
11. CAM Plants
12. Leghaemoglobin

Section B $(5 \times 5 = 25)$ Marks

Answer any **FIVE** questions

13. Comment on the physiological effect of Abscisic acid
14. Outline the biosynthetic pathway of terpenoids.
15. Briefly describe the factors affecting of enzyme action.
16. Write about the mechanism of action of Phytochrome.
17. Enumerate the steps of Glycolysis.
18. Describe the mechanism of symbiotic nitrogen fixation.
19. What is Kranz anatomy? Explain the carbon reduction in C_4 plants

Section C $(3 \times 10 = 30)$ Marks

Answer any **THREE** questions

20. Describe the process of biosynthesis of Auxin and its physiological action.
21. Give an account of the structure and biosynthesis of alkaloid.
22. Explain Enzyme Kinetics with Michalis- Menton constant.
23. Briefly explain the steps of CO2 fixation in C3 Plants.
24. Elucidate the steps involved in Citric acid cycle.

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