B.Sc DEGREE EXAMINATION,APRIL 2019
III Year VI Semester
Plant Physiology, Biochemistry and Biophysics

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

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

Answer any **TEN** questions

1. Red drop
2. Fluorescence
3. F1 particle
4. Respiratory quotient
5. Fermentation
6. Denitrification
7. Apoenzyme
8. ATP
9. Transamination
10. Entropy
11. Kranz Anatomy
12. ABA

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

Answer any **FIVE** questions

13. Explain non-cyclic photophosphorylation.
14. Describe oxidative phosphorylation.
15. Enumerate the importance of nitrogen in plant life.
16. Give the classification of Coenzymes.
17. Explain bioluminescence.
18. Describe the physiological role of gibberellins.
19. What is Michaelis constant?

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

Answer any **THREE** questions

20. Describe in detail the C3 cycle.
21. Give a detailed account of Krebs Cycle.
22. Write in detail about the biological nitrogen fixation and about the symbiotic nitrogen fixation.
23. Explain the mechanisms of enzyme action.
24. Explain the laws of thermodynamics.

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