B.Sc. DEGREE EXAMINATION,APRIL 2020
III Year VI Semester
Plant Physiology, Biochemistry and Biophysics

Time : 3 Hours **Max.marks :60**

Section A $(10 \times 1 = 10)$ Marks

Answer any **TEN** questions

1. Quantosomes.
2. Red drop
3. Respiratory quotient.
4. Pasteur's effect.
5. Nitrate reductase.
6. Abscisic acid.
7. Active centre.
8. Michaelis constant.
9. Entropy
10. Free energy.
11. Fluorescence.
12. Cofactor

Section B $(5 \times 4 = 20)$ Marks

Answer any **FIVE** questions

13. Write short notes on photorespiration.
14. Describe the mechanism of electron transport during oxidative phosphorylation.
15. Write short notes on biological nitrogen fixing organisms.
16. Write down the classification of coenzymes and its mechanism of action.
17. Discuss the properties of Bioluminescence.
18. Write notes on the physiological activities of cytokinin in plants.
19. Write an account on mode of action of enzymes.

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

Answer any **THREE** questions

20. Describe the biochemical pathway of Calvin cycle.
21. Explain the process of Glycolysis in Plants.
22. Write an essay on plant growth regulators and its practical applications.
23. Describe the properties of enzymes.
24. Discuss the laws of thermodynamics.

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