

23BBO502
UG PROGRAM (4 YEARS HONOURS) WITH SINGLE MAJOR
AT THE END OF FIFTH SEMESTER
BOTANY-PLANT PHYSIOLOGY AND METABOLISM
(w.e.f. Admitted Batch 2023-24)

Time: 3 Hours

Maximum: 70 Marks

Section-A

Answer any Five Questions.

5x4=20

1. Plasmolysis.
2. Properties of enzymes.
3. Emerson enhancement effect.
4. Classification of Lipids.
5. Physiological changes & Significance of Senescence.
6. Alcoholic fermentation.
7. Cyclic photophosphorylation.
8. Applications of Diffusion in plants.

Section- B

Answer All Questions.

5x10=50

9. a) Describe the mechanism of Stomatal opening & closing.
(Or)
b) Define Ascent of sap & describe the various theories on it.
10. a) Describe the mechanism of Citric acid cycle.
(Or)
b) Give an account on Classification of enzymes with examples.
11. a) Differentiate the C3 & C4 pathways.
(Or)
b) Describe the Z-scheme with suitable diagrams.
12. a) Describe the process of Beta oxidation.
(Or)
b) Give an account on biological nitrogen fixation in legumes.
13. a) Give an account on growth inhibitors in plants.
(Or)
b) Explain the physiological functions of Auxins.