

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2023
(Regular/Improvement/Supplementary)

BOTANY

FBOT1C01-PHYCOLOGY, BRYOLOGY, PTERIDOLOGY AND GYMNOSPERMS

Time: 3 Hours

Maximum Weightage: 30

Part A: Answer any *four* questions. Each carries *two* weightage.

1. Discuss the important characters of Gnetales.
2. Describe the classification of Bryophytes.
3. What is the importance of Phytoplanktons?
4. Write short notes on reproduction in Cycadales.
5. List the types of pigments present in different algal groups.
6. Enlist the differences between apogamy and apospory with appropriate examples.
7. Give an account of polyploidy in Pteridophytes.

(4 × 2 = 8 weightage)

Part B: Answer any *four* questions. Each carries *three* weightage.

8. Describe the reproduction in algal groups mentioned in syllabus.
9. Comment on the evolution of sporangium in Pteridophytes.
10. Write a general account on morphological and anatomical features of taxaes.
11. Briefly explain the economic importance of bryophytes with special reference to Sphagnum moss.
12. Discuss Pichi-Sermolli systems of classification of Pteridophytes.
13. Give an account on the economic importance of Gymnosperms.
14. Differentiate between the thallus structure of Chlorophyta and Xanthophyta.

(4 × 3 = 12 weightage)

Part C: Answer any *two* questions. Each carries *five* weightage.

15. Write a detailed account on the types of stele in pteridophytes. Add notes on evolution of stele.
16. Explain Chamberlain system of classification in gymnosperms.
17. Discuss fossil bryophytes and their affinities.
18. Write an essay on Fritsch system of algal classification.

(2 × 5 = 10 weightage)