D1ABT2501 **(1 Page)** **Name.....**
Reg.No.....

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2025
(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. Describe the general features of Gnetales.
2. Define the following terms – Pyrenoid, Eyespot.
3. Describe Polyploidy in pteridophytes.
4. Compare the anatomical features of funariales and polytrichales.
5. Mention the importance of Glossopteridales.
6. Highlight the biological importance of Phytoplanktons.
7. Differentiate between Apogamy and Apospory.

(4 × 2 = 8 weightage)

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

8. Describe the morphological features of Ephedrales.
9. Write down the economic importance of algae.
10. Describe Pichi – Sermolli systems of classification of pteridophytes.
11. Write the economic importance of bryophytes.
12. Describe the Smith systems of algal classification.
13. Write notes on the origin and evolution of sporangium in pteridophytes.
14. Give details on the distribution of Pteridospermales.

(4 × 3 = 12 weightage)

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

15. Explain Fossil bryophytes.
16. Illustrate and explain different types of life-cycles in algae.
17. Explain the economic importance of Gymnosperms.
18. Explain heterospory and seed habit with suitable example.

(2 × 5 = 10 weightage)