

FIRST SEMESTER M.Sc DEGREE EXAMINATION, NOVEMBER 2025

(CBCSS - PG)

(Regular/Supplementary/Improvement)

CC19PBOT1C01 - PHYCOLOGY, BRYOLOGY, PTERIDIOLOGY AND GYMNOSPERMS

(Botany)

(2019 Admission onwards)

Time : 3 Hours

Maximum : 30 Weightage

Part-AAnswer any ***four*** questions. Each question carries 2 weightage.

1. What are water blooms?
2. Write a note on energy sources in algae.
3. Briefly explain general characters and vegetative reproduction of Funariales.
4. Explain Apospory and its causes.
5. Give an account on Prothallus.
6. What are Quill worts? Write their features.
7. Differentiate between manoxylic and picnoxylic wood.

(4 × 2 = 8 Weightage)**Part-B**Answer any ***four*** questions. Each question carries 3 weightage.

8. Explain Smith's and Round's classification of algae.
9. Write a note on sexual reproduction and evolutionary trends in chlorophyceae.
10. Explain classifications of bryophytes.
11. Give an account on cytology of Pteridophytes.
12. Write a note on Holttum's classification.
13. Compare Marsileales and Salviniales.
14. Write short note on the angiosperm features of Gnetum.

(4 × 3 = 12 Weightage)

Part-C

Answer any ***two*** questions. Each question carries 5 weightage.

15. Write an essay on cell structure reproduction and evolutionary relationships of Rhodophyta.
16. Give an account on the evolution of Sporophytes in bryophytes.
17. Discuss the structure and evolution of stele in pteridophytes.
18. Write an essay on phylogenetic relationship of gymnosperms.

(2 × 5 = 10 Weightage)
