

D 131265**(Pages : 2)****Name.....****Reg. No.....****FIRST SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)
EXAMINATION, NOVEMBER 2025****(CBCSS)****Botany****BOT 1C 01—PHYCOLOGY, BRYOLOGY, PTERIDOLOGY AND GYMNOSPERMS****(2019 Admission onwards)****Time : Three Hours****Maximum : 30 Weightage****Section A (Short Answer Type Questions)***Answer any **four** questions.**Each question carries 2 weightage.*

1. What is the role of planktons in aquatic food chains ?
2. What are Pyrenoids ?
3. Name two medicinally important Pteridophytes.
4. Name two predominant Gymnosperm groups of the Mesozoic era.
5. What is Chamberlain's system of classification ?
6. Mention the economic use of conifers.
7. Name two features of Anthocerotales.

(4 × 2 = 8 weightage)**Section B (Short Essay Type Questions)***Answer any **four** questions.**Each question carries 3 weightage.*

8. Compare pigments of Chlorophyta and Phaeophyta.
9. Describe the significance of algal flagella in classification.
10. Write briefly on the reproduction in Marchantiales.
11. Discuss the ecological importance of Bryophytes.

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12. Differentiate between apogamy and apospory.
13. Discuss the distribution of Ephedrales.
14. Differentiate between Coniferales and Taxales.

(4 × 3 = 12 weightage)

Section C (Long Essay Type Questions)

*Answer any **two** questions.*

Each question carries 5 weightage.

15. Write an essay on the classification and general characters of Bryophytes.
16. Explain the structure, development, and evolution of sporangium in Pteridophytes.
17. Trace the phylogenetic relationships of Gymnosperms with Angiosperms.
18. Explain in detail the thallus organization and reproduction in Phaeophyta.

(2 × 5 = 10 weightage)