



K24P 3877

Reg. No. :

Name :

**I Semester M.Sc. Degree (C.B.C.S.S. – OBE-Reg./Supple./Imp.)
Examination, October 2024
(2023 Admission Onwards)**

BOTANY

MSBOT01C03 : Bryophytes, Pteridophytes and Gymnosperms

Time : 3 Hours

Max. Marks : 60

PART – A

Answer **any five** questions.

(5×3=15)

1. What is the role of heterospory in the evolutionary significance of Pteridophytes ?
2. Briefly describe the habitat and ecological role of Riccia.
3. State the importance of gymnosperms in the pharmaceutical industry.
4. Discuss the significance of the family Cycadaceae in plant evolution.
5. Explain the structure and function of sporangia in Lycopodium.
6. What are the key features of the order Coniferales ?

PART – B

Answer **any three** questions.

(3×6=18)

7. Define “vascular cryptogams” and discuss their significance in the plant kingdom.
8. Compare the reproductive strategies of Ginkgo and Cycas.
9. How do Gymnosperms differ from Angiosperms in terms of seed development ?

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10. Describe the morphological and reproductive features of Psilotum.
11. Discuss the importance of Sphagnum in ecological restoration projects.

PART – C

Answer **any three** questions.

(3×9=27)

12. Explain the role of Bryophytes in soil formation and ecological succession.
13. Describe the key adaptations of ferns to terrestrial life.
14. Discuss the structure and function of the male and female gametophytes in Gymnosperms.
15. What is the role of fern rhizomes in their vegetative reproduction ? Illustrate with examples.
16. Discuss the evolutionary relationship between Pteridophytes and Gymnosperms.

