



K23P 3258

Reg. No. :

Name :

**First Semester M.Sc. Degree (CBSS – Supple. (One Time Mercy Chance)/Imp.)
Examination, October 2023
(2014 to 2022 Admissions)**

BOTANY

BOT1 C03 : BRYOLOGY, PTERIDOLOGY AND GYMNOSPERMS

Time : 3 Hours

Max. Marks : 60

Instruction : Draw diagrams wherever necessary.

SECTION – A

1. a) Describe the morphology, anatomy and life history of Targionia.
OR
b) Explain stelar evolution and vessels in Pteridophytes.
2. a) Describe the morphological and anatomical features of Lycopsidea.
OR
b) Write an account of characteristic features of Pteridopsermales and Glossopteridales. (2×8=16)

SECTION – B

Answer **any two**.

3. a) Mention morphological characters of Sphagnum.
b) Write about the anatomy of Sphagnum.
c) Explain the life history of Sphagnum. (1+2+3)
4. a) Write about Osmunda tassel.
b) Explain anatomical features of Osmunda.
c) Write about morphological features of Osmunda. How is it different from Gleichenia ? (1+2+3)
5. a) Mention the uniqueness of Welwitschia.
b) Write about morphological features of Welwitschiales.
c) Explain anatomical features of Welwitschiales. (1+2+3)

(2×6=12)

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SECTION – C

Answer **any six**.

6. Write about morphological features of Coniferales.
7. Give an account of fossil bryophytes.
8. Write about habitat diversity of Pteridophytes.
9. Write about economic importance of Bryophytes. Why is it called as pollution indicators ?
10. Write about Ephedrales.
11. Write about evolution of sporangia in Pteridophytes.
12. Write a note on gametophytic variations in Bryophytes.
13. Write about contribution of Indian Pteridologist. (6×3=18)

SECTION – D

Answer **any seven**.

14. Write about edible Pteridophytes.
15. Explain the sporophyte of Porella.
16. Write about the anatomical features of Pentoxylalea.
17. Explain telome theory.
18. Write about the morphology of Andreaea.
19. Write an account on Martitales.
20. Explain the Sporocarp of Salvinia.
21. Write about any two fossil gymnosperms.
22. Explain gametophyte of Notothylas.
23. Write about the anatomical features of Psilopsida. (7×2=14)