

**23P128**

(Pages: 2)

Name: .....

Reg.No: .....

**FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2023**

(CBCSS - PG)

(Regular/Supplementary/Improvement)

**CC19P BOT1 C01 - PHYCOLOGY, BRYOLOGY, PTERIDOLOGY AND GYMNOSPERMS**

(Botany)

(2019 Admission onwards)

Time : 3 Hours

Maximum : 30 Weightage

**Part-A**

Answer any *four* questions. Each question carries 2 weightage.

1. Describe vegetative reproduction methods in algae.
2. Distinguish between zoospore and aplanospore in Xanthophyceae.
3. What are hornworts? Explain their features.
4. What is Siphonostele? Write a note on types of Siphonostele.
5. Write a note on Pichi-Sermolli's classification.
6. Comment on Primofilicales.
7. Describe the Economic importance of Gymnosperms.

**(4 × 2 = 8 Weightage)**

**Part-B**

Answer any *four* questions. Each question carries 3 weightage.

8. With suitable diagrams explain cell and cell wall of algae.
9. Describe life cycles in Rhodophyta.
10. Describe the gametophyte variation in bryophytes.
11. Compare life history of homosporous and heterosporous pteridophytes.
12. Give an account on gametophyte development in Pteridophytes.
13. Give an account on Pseudoborniales and hyeniales.
14. Explain Maiden hair tree.

**(4 × 3 = 12 Weightage)**

**Part-C**

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

15. Write an essay on biological importance of planktons.
16. Write an essay on fossil bryophytes and their affinities.
17. Write an essay on heterospory and seed habit in pteridophytes.
18. Write an essay on classification of gymnosperm and mention its features.

**(2 × 5 = 10 Weightage)**

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