



22001583

QP CODE: 22001583

Reg No : .....

Name : .....

**M Sc DEGREE (CSS) EXAMINATION, JULY 2022**

**First Semester**

M Sc BOTANY

**CORE - BY010103 - BRYOLOGY AND PTERIDOLOGY**

2019 ADMISSION ONWARDS

956EC1CB

Time: 3 Hours

Weightage: 30

**Part A (Short Answer Questions)**

*Answer any **eight** questions.*

*Weight 1 each.*

1. Write a note on affinities of bryophytes with pteridophytes.
2. Define endohydric bryophytes.
3. What is relationship between bryophytes and algae.?
4. What are rhizoids? Explain its function.
5. What are athrediphore? Explain its function.
6. Write short note on classification by PPG-2016.
7. Mention the biological significance of heterospory.
8. Differentiate between rhizophore and a root.
9. What is the function of elaters in Equisetum?
10. Write the ecological role of pteridophyte in prevention of soil and nutrient leaching.

(8×1=8 weightage)

**Part B (Short Essay/Problems)**

*Answer any **six** questions.*

*Weight 2 each.*

11. Evaluate the classification of bryopsida proposed by Goffinet *et al.*
12. Mention the ecological significance of bryophytes. Discuss their role in environmental monitoring.





13. How peat formation occurs.? Discuss the horticultural uses of peat.
14. Mention the general characters of sporophyte in bryophytes
15. Illucidate the algal origin of pteridophytes.
16. What are the characteristics of Rhynia?
17. What are leptosporangiate ferns? Give two examples.
18. Mention the economic importance of Azolla.

(6×2=12 weightage)

**Part C (Essay Type Questions)**

*Answer any **two** questions.*

*Weight 5 each.*

19. Write an account on contributions of indian bryologist.
20. Write an essay on mechanism of spore dispersal in bryophytes with suitable examples.
21. Describe the evoluion of gametophyte with reference to the types you have studied.
22. Write an essay on morphology and anatomy of Marselia sporocarp.

(2×5=10 weightage)

