



24

QP CODE: 19002486



19002486

Reg No :

Name :

M.Sc. DEGREE (C.S.S) EXAMINATION, NOVEMBER 2019**First Semester**

Faculty of Science

BOTANY

Core - BY010103 - BRYOLOGY AND PTERIDOLOGY

2019 Admission Onwards

8E8B1311

Time: 3 Hours

Maximum Weight :30

Part A (Short Answer Questions)*Answer any **eight** questions.**Weight 1 each.*


1. Write short note on classification of bryophytes as proposed by Goffinet et al in 2008.
2. Define ectohydric bryophytes
3. Give short note on symbiotic association seen in bryophytes with suitable examples
4. What are pseudoelaters? What is its function?
5. What are tuberculated rhizoids ?
6. What is meant by a Siphonostele? Explain.
7. Rhizome of Rhynia represents the gametophyte. Comment on the statement.
8. Discuss the leaf arrangement in Selaginella
9. Mention xerophytic characters of Equisetum
10. Name any two pteridophytes as ecological indicators and mention their importance.

(8×1=8 weightage)

Part B (Short Essay/Problems)*Answer any **six** questions.**Weight 2 each.*

11. Explain the major contributions of indian bryologist.
12. Bryophytes help to improve soil quality. Justify the statement



- 
13. Write short note on the in vitro culture techniques in bryophytes.
 14. Define alternation of generation in bryophyta with suitable examples.
 15. Pteridophytes were the simplest vascular plants. Discuss.
 16. Describe the spore producing organ of Marsilea and discuss briefly its morphological nature.
 17. Briefly explain apogamy and apospory in pteridophytes
 18. How ferns control pollution?

(6×2=12 weightage)

Part C (Essay Type Questions)

Answer any **two** questions.

Weight 5 each.

19. Explain the Algal and Pteridophytic origin of Bryophytes
20. Write an essay on spore dispersal mechanism in bryophytes with suitable diagrams.
21. Give a brief outline of various systems of classification of pteridophytes.
22. Give an account of stelar structure of Psilotum and comment on the affinities of the genus.

(2×5=10 weightage)