



QP CODE: 25050626



25050626

Reg No :

Name :

MSc DEGREE (CSS) EXAMINATION DECEMBER 2025

First Semester

M Sc BOTANY

Core Courses - BY010103 - BRYOLOGY AND PTERIDOLOGY

2019 Admission Onwards

43D82AA1

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. Comment on major contributions of Shiv Ram Kashyap.
2. Discuss the role of bryophytes in pollution monitoring.
3. What is relationship between bryophytes and algae?
4. What is columella? Where is it seen?
5. What are antheridophore? Explain its function.
6. What is the significance of heterospory in pteridophytes?
7. Define synangia. Give an example.
8. How is the epidermis of Equisetum differ from other pteridophytes?
9. What is glochidia?
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. Explain the pteridophyte origin of bryophytes.
12. Differentiate between ectohydric and endohydric bryophytes.
13. Write short note on the *in vitro* culture techniques in bryophytes.
14. Give salient features of order Bryales.
15. Give an account of classification of pteridophytes by Smith.





16. Write notes on the following
a) Lepidocarpon b) Stigmaria
17. Explain about eusporangiate sorus.
18. How ferns control pollution?

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. Outline the classification 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. Define the term stele. With the help of suitable sketches describe the stem anatomy in Lycopodium.

(2×5=10 weightage)

