Preview





Reg No	:	
Name	:	

M Sc DEGREE (CSS) EXAMINATION, NOVEMBER 2021

First Semester

Faculty of Science

M Sc BOTANY

CORE - BY010103 - BRYOLOGY AND PTERIDOLOGY

2019 ADMISSION ONWARDS

3609C806

Time: 3 Hours

QP CODE: 21002168

Weightage: 30

Part A (Short Answer Questions)

Answer any eight questions.

Weight 1 each.

- 1. Name a fossil liverwort.
- 2. Discuss the role of bryophtes in pollution monitoring.
- 3. Explain the rehydration techniques in bryophytes
- 4. What are pegwalled rhizoids? Explain its function
- 5. Explain the protonema stage of moss
- 6. Differentiate between solenostele and dictyostele
- 7. Mention the biological significance of heterospory.
- 8. How is the epidermis of Equisetum differ from other pteridophytes?
- 9. What is glochidia?
- 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. Give an account on the evolution and affinities of bryophytes.
- 12. Discuss the symbiotic association of bryophytes.
- 13. Write short note on the *in vitro* culture techniques in bryophytes.
- 14. Give an account of sporophyte of Anthocerotales
- 15. Anthocerotean origin of Pteridophytes. Illucidate.
- 16. Describe the identifying characters of Lepidodendron.
- 17. What are leptosporangiate ferns? Give two examples.
- 18. Briefly explain the role of pteridophytes in phytoremediation.

(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)