

TB154080A

Reg. No.....

Name.....

**B. Sc. DEGREE (C.B.C.S.S.) EXAMINATION, MARCH 2017**  
**SEMESTER IV - CORE COURSE (BOTANY)**  
**BO4B04TB - BRYOLOGY AND PTERIDOLOGY**

**Time: Three Hours**

**Maximum Marks: 60**

**PART A**

**I. Answer all questions. Each question carries 1 mark**

1. What is apospory?
2. Mention the importance of *Sphagnum* in Horticulture.
3. Define prothallus.
4. What are rhizophores?
5. What is a siphonostele?

**(5x1=5)**

**PART B**

**II. Answer any five questions. Each question carries 2 marks.**

6. Briefly explain the modes of vegetative reproduction in *Funaria*
7. Give an account on the anatomy of *Marchantia* thallus
8. What are the medicinal uses of bryophytes?
9. Comment on the retrogressive evolution of bryophytes
10. What are the xerophytic features of *Equisetum*?
11. With a neat labelled diagram describe the structure of sporangium of *Pteris*
12. Elaborate on morphology of sporocarp of *Marsilea*
13. Explain heterospory with an example

**(5x2=10)**

**PART C**

**III. Answer any five questions. Each question carries 5 marks**

14. Give an account on the general characters of Bryophytes
15. Describe the life cycle of *Riccia*
16. Explain the evolution of bryophytes from algae
17. What are the ecological importance of bryophytes?
18. Rhizophores in *Selaginella* are root like or stem like? Justify
19. Describe the diverse types of gametophytes in *Lycopodium*
20. Give an account on the economic importance of Pteridophytes
21. Describe the reproduction in *Psilotum* by spores

**(5x5=25)**

**PART D**

**IV. Answer any two questions. Each question carries 10 marks**

22. Explain the stelar evolution in Pteridophytes
23. Write an essay on the reproduction and life cycle of *Anthoceros*
24. Heterospory leads to seed habit. Explain with reference to *Selaginella*
25. Describe in detail the sexual reproduction in *Marsilea*

**(2x10=20)**