

TB146080A

Reg. No.....

Name.....

**B. Sc. DEGREE (C.B.C.S.S.) EXAMINATION, MARCH 2017**

**SEMESTER VI - BOTANY**

**BOT6BPGP - BRYOLOGY, PTERIDOLOGY, GYMNOSPERMS AND**

**PALAEOBOTANY**

**Time: Three Hours**

**Maximum Marks: 60**

**PART A**

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

1. What are gemmae cups?
2. What is protonema?
3. Name an eminent Indian Paleobotanist.
4. What are elaters?
5. What is glossopodium?
6. Name a fossil Pteridophyte.
7. What are transfusion tissues?
8. What is 'shower of sulphur'?

**(8 × 1 = 8)**

**PART B**

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

9. Explain different types of rhizoids in Bryophytes.
10. Explain the similarities of Pteridophytes with Bryophytes.
11. Write notes on coralloid root.
12. Explain the role of Bryophytes in ecological succession.
13. Explain the structure of *Selaginella* strobilus.
14. What are Petrifactions?
15. Explain the xerophytic characters of *Equisetum*.
16. Explain apospory?
17. What is pollination drop mechanism?
18. Give an account on *Williamsonia*.

**(6×2 = 12)**

**PART C**

**III. Answer any four questions. Each question carries 4 marks.**

19. Explain the use of Bryophytes in horticulture.
20. Give an account on gametophyte in *Lycopodium*.
21. What are the angiosperm characters of *Gnetum*?
22. Explain the structure of capsule in *Funaria*.
23. Explain the internal structure of *Cycas* leaflet.
24. Explain the process of fossil formation.

**(4×4 = 16)**

#### **PART D**

**IV. Answer any two questions. Each question carries 12 marks.**

25. Describe the life cycle of *Selaginella*. Explain heterospory and seed habits.
26. Explain the evolution of Pteridophytes.
27. What is alternation of generation? Describe the life cycle of *Funaria*.
28. Explain the life cycle of *Pinus*.

**(2 × 12 = 24)**