

16 SB - 79

Second Semester B.Sc. Degree Examination, May/June 2018  
(CBCS Scheme 2016-17) (New Syllabus)

BOTANY - II

Paper - II : Bryophyta, Pteridophyta, Gymnosperms and Palaeobotany

Max. Marks : 80

Time : 3 Hours

*Instructions* : 1) **All Parts are compulsory.**  
2) **Draw labelled diagrams wherever necessary.**

PART - A

(10×2=20)

Write a brief notes on **any ten** of the following :

1. Amphibians of plant world.
2. Circinate vernation with example.
3. Fossilisation.
4. Stele in psilotum.
5. Foliar spur.
6. Dorsal surface of marchantia.
7. Alternation of generation.
8. Megasporophyll of Cycas.
9. Amphiphloic siphonostele.
10. Spores of Equisetum.
11. Gametophyte of Funeria.
12. Heterospores with examples.

PART - B

Write a short notes on **any six** of the following :

(6×5=30)

13. Rhizophore.
14. L.S. of Archegoniophore of Marchantia.
15. Angiosperm characteristics of Gnetum.

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16. T.S. of Anthocerus thallus.
17. T.S. of Marselia petiole.
18. Fossil types.
19. L.S. of selaginella strobilus.
20. Rhynia.

**PART – C**

Answer **any three** of the following:

**(3×10=30)**

21. Describe the T.S. of Pinus needle with neat labelled diagram.
  22. Give an account on evolution of sporophytes in Bryophytes.
  23. Describe the T.S. of equisetum stem with neat labelled diagram.
  24. What is Protostele ? Explain the different types of protostele with neat labelled diagram.
  25. Explain :
    - a) T.S. of cycas leaf let.
    - b) L.S. of Lycopodium cone.
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