

M.Sc.DEGREE EXAMINATION, APRIL 2020
I Year I Semester
Bryophytes, Pteridophytes, Gymnosperms and Paleobotany

Time : 3 Hours

Max.marks :75

Section A ($10 \times 2 = 20$) Marks

Answer any **TEN** questions

1. Alteration of generations
2. Rhizoids
3. Apospory
4. Sori or Indusia
5. Synangium
6. Homosporous
7. Ephedrine
8. Economic importance of *Podocarpus*
9. Fossils
10. Birbal Sahni
11. Gemma
12. Protostele

Section B ($5 \times 5 = 25$) Marks

Answer any **FIVE** questions

13. Write note on the salient features of Bryophytes.
14. Classification of Pteridophyte as per Reimer (1954).
15. What is distinctive about the leaf morphology and sporangium of *Osmunda*?
16. List out the economic importance of Gymnosperms.
17. Discuss on the Gondwana flora of India.
18. Explain the evolution of sporophyte in Bryophytes.
19. Discuss on the reproductive structure of *Selaginella*.

Section C ($3 \times 10 = 30$) Marks

Answer any **THREE** questions

20. Compare the vegetative and reproductive structures of *Lunularia* and *Funaria*.
21. Elaborate stelar evolution in Pteridophytes.
22. Describe the life cycle of *Pteris*.
23. Describe the life cycle of *Araucaria*.
24. Prepare a detail account on the importance of paleobotany in evolutionary studies with special reference to *Sphenophyllum* and *Cordaitea*.

M.Sc.DEGREE EXAMINATION, APRIL 2020
I Year I Semester
Bryophytes, Pteridophytes, Gymnosperms and Paleobotany

Time : 3 Hours

Max.marks :75

Section A ($10 \times 2 = 20$) Marks

Answer any **TEN** questions

1. Alteration of generations
2. Rhizoids
3. Apospory
4. Sori or Indusia
5. Synangium
6. Homosporous
7. Ephedrine
8. Economic importance of *Podocarpus*
9. Fossils
10. Birbal Sahni
11. Gemma
12. Protostele

Section B ($5 \times 5 = 25$) Marks

Answer any **FIVE** questions

13. Write note on the salient features of Bryophytes.
14. Classification of Pteridophyte as per Reimer (1954).
15. What is distinctive about the leaf morphology and sporangium of *Osmunda*?
16. List out the economic importance of Gymnosperms.
17. Discuss on the Gondwana flora of India.
18. Explain the evolution of sporophyte in Bryophytes.
19. Discuss on the reproductive structure of *Selaginella*.

Section C ($3 \times 10 = 30$) Marks

Answer any **THREE** questions

20. Compare the vegetative and reproductive structures of *Lunularia* and *Funaria*.
21. Elaborate stelar evolution in Pteridophytes.
22. Describe the life cycle of *Pteris*.
23. Describe the life cycle of *Araucaria*.
24. Prepare a detail account on the importance of paleobotany in evolutionary studies with special reference to *Sphenophyllum* and *Cordaitea*.