

B.Sc. DEGREE EXAMINATION, APRIL 2020
II Year IV Semester
Gymnosperms, Paleobotany and Evolution

Time : 3 Hours

Max.marks :75

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

Answer any **TEN** questions

1. Dwarf shoot
2. Pycnoxylic wood.
3. Living fossil
4. Bars of sanio
5. Pseudofossils
6. Coal ball
7. Paleozoic era
8. Father of Paleobotany.
9. Adoption
10. Recombination
11. Medulosa
12. Petrification

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

Answer any **FIVE** questions

13. Write a note on general characteristics of Gymnosperms.
14. Draw and explain the structure of coralloid root of *Cycas*.
15. Explain the conditions for fossilization.
16. Chart out the Geological time scale.
17. Explain the chemosynthetic theory of origin of life.
18. Give an account on the significance of paleobotany.
19. Briefly describe the *Pentoxylon*.

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

Answer any **THREE** questions

20. Describe the classification of Gymnosperm as given by Pilgers 1954.
21. Write a comprehensive account on the Morphology and reproduction of *Gnetum*.
22. What are fossil? Describe the kinds of fossil.
23. Briefly describe the structure of *Williamsonia seawardiana*.
24. Write an essay on the sources of variations?

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