B.Sc. DEGREE EXAMINATION,NOVEMBER 2019
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. Picnoxylic wood
2. Megaphyllous
3. Cycas Rachis
4. Polyembryony
5. Gnetum cupule
6. Coralloid root
7. Amber
8. Pseudofossil
9. Pre - Cambrian
10. Paleozoic Era
11. Adaptation
12. Charles Darwin

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

Answer any **FIVE** questions

13. Describe the general characters of Gymnosperms.
14. Draw and describe the ovule of Cycas.
15. Briefly explain the female gametophyte of Gnetum.
16. List out the ideal conditions for fossilization.
17. List out the contributions of Birbal Sahni.
18. Describe the chemosynthetic theory of origin of life.
19. Give an account on Pentoxylon.

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

Answer any **THREE** questions

20. Give an account on the classification of gymnosperms.
21. Describe the gametophytes of Cycas.
22. Write an essay on the types of fossilization.
23. Give an account on Williamsonia and Medullosa.
24. Elaborate the variation in nature.

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