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Name.....

Reg. No.....

**FIFTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION
NOVEMBER 2022**

Botany

**BOT 5B 06—GYMNOSPERMS, PALAEOBOTANY, PHYTOGEOGRAPHY AND
EVOLUTION**

(2019 Admission onwards)

Time : Two Hours

Maximum : 60 Marks

Section A

*Answer all questions.
Each question carries 2 marks.
Ceiling 20 marks.*

1. Briefly explain Sporne classification of Gymnosperms.
2. Describe Coralloid root of *Cycas*.
3. Enumerate the characters of *Gnetum* male and female cone.
4. Write a note on General characters Gymnosperm.
5. Explain Fossil formation and types of fossils.
6. Write a note on important Indian Paleobotanical Institutes.
7. What is Continental drift. Mention its Evidences and impact.
8. Differentiate migration and extinction.
9. Write an note on theory of land bridge.
10. Write a note on modern concept of evolution.
11. Differentiate sympatric and allopatric speciation.
12. Discuss Oparin's concept.

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Section B

*Answer all questions.
Each question carries 5 marks.
Ceiling 30 marks.*

13. Write an account on Evolutionary trends in Gymnosperms.
14. Describe and compare the reproductive part of *Cycas* and *Pinus*.
15. Describe Geological time scale. Discuss the sequence of plants in geological time.
16. Explain Endemic distribution based on theories.
17. Discuss the concept, scope and significance of phytogeography.
18. Explain evolution of prokaryotic and eukaryotic organism.
19. Explain the theories on origin of Universe, Earth and Origin of life.

Section C

*Answer any one question.
The question carries 10 marks.*

20. Explain various Phytogeographical zones (phytochoria) of India.
21. Discuss the concept of Genetic Constancy and Creation of Variability.

(1 × 10 = 10)