

TB244438T

16.4

Reg. No :

Name :

BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, MARCH 2024
2022 ADMISSIONS REGULAR
SEMESTER IV - CORE COURSE (BOTANY)
BO4B04B18 - Pteridology, Gymnosperms and Paleobotany

Time : 3 Hours

Maximum Marks : 60

Part A

I. Answer any Ten questions. Each question carries 1 mark

(10x1=10)

1. What are bulbils?
2. Differentiate between isophyllous and anisophyllous condition.
3. Name a species of Psilotum.
4. What is a raphe?
5. Name a pteridophyte which is used as biofertilizer in paddy fields.
6. Which are the two types of scale leaves seen in Pinus?
7. What is the type of pollination in gymnosperms?
8. What are haplocheilic stomata?
9. Name a gymnosperm plant having mycorrhizal association.
10. Which is the famous drug obtained from the genus Ephedra?
11. Distinguish between compression and impression.
12. Differentiate between molds and casts.

Part B

II. Answer any Six questions. Each question carries 5 marks

(6x5=30)

13. How has heterospory led to seed habit in Pteridophytes? Explain with an example.
14. What are sori? Describe the sori in Pteris.
15. Explain the use of Pteridophytes as food with examples.
16. Explain the structure of the fertile megasporophyll of Pinus.
17. Explain any five distinguishing features of Cycas.
18. Explain the structure of microspore of Pinus.
19. Describe the uses of gymnosperms as food, medicine and in industry.
20. How do you determine the evolutionary history with the help of Paleobotany?
21. What are fossil fuels? How are they formed? Give examples.

Part C

III. Answer any Two questions. Each question carries 10 marks

(2x10=20)

22. With suitable examples explain the salient features of pteridophytes.
23. Compare the cones of Lycopodium, Selaginella and Equisetum with diagrams.
24. Write an essay on affinities of gymnosperms with pteridophytes and angiosperms.
25. How are fossils formed? Describe the different types of fossils.

