

TB214050W

Reg. No :

Name :

B.Sc. DEGREE (C.B.C.S.) EXAMINATION, MARCH 2023

(2021 Admissions Regular, 2020 Admissions Supplementary / Improvement, 2019 & 2018 Admissions Supplementary)

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. How does the cone of Equisetum dehisce?
2. Distinguish between protostele and siphonostele.
3. Give the name of an aquatic Pteridophyte.
4. What is archegonium?
5. Define apogamy.
6. Name the tallest known gymnosperm plant
7. Which are the two types of scale leaves seen in Pinus?
8. What is siphonogamic fertilization?
9. Name the plant known as living fossil.
10. Write the binomial name of Deodar.
11. What are eras and epochs?
12. Expand BSIP. Where is it situated?

Part B

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

(6x5=30)

13. What are sori? Describe the sori in Pteris.
14. With a diagram, explain the structure of the gametophyte in Pteris.
15. Explain the use of Pteridophytes as food with examples.
16. Explain the types of Pinus leaves.
17. Write notes on apogeotropic roots of Cycas.
18. Explain the method of seed germination in Pinus.
19. Write short essay on uses of gymnosperms.
20. What is Paleobotany? List out the significance of this branch of study.
21. Explain the eras in Phanerozoic eon.

Part C

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

(2x10=20)

22. Explain the process of reproduction in Lycopodium.
23. With diagrams, explain the various types of gametophytes in Lycopodium.
24. Explain the life cycle of Cycas with suitable diagrams.
25. Describe timing and relationship of events in geologic history by GTS.