

010 13.3.21

BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, MARCH 2025
2018, 2019, 2020, 2021, 2022 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. Give the name of an aquatic Pteridophyte.
2. Differentiate between isophyllous and anisophyllous condition.
3. Distinguish between protandry and protogyny.
4. Rhizophore is an organ sui generis. Why?
5. What are resurrection plants?
6. What is the type of pollination in gymnosperms?
7. What are cataphylls?
8. What are brachyblasts?
9. Explain meriblastic embryo development.
10. Write the binomial of sago palm.
11. Distinguish between compression and impression.
12. Expand BSIP. Where is it situated?

Part B

II. Answer any Six questions. Each question carries 5 marks**(6x5=30)**

13. Describe the morphological features of Equisetum.
14. How has heterospory led to seed habit in Pteridophytes? Explain with an example.
15. Describe the uses of Pteridophytes as medicines.
16. With the help of suitable diagrams explain the anatomy of Cycas leaflet.
17. Explain the types of branches in Pinus.
18. Explain the types of Pinus leaves.
19. Write short essay on uses of gymnosperms.
20. Explain the eras in Phanerozoic eon.
21. Describe the structure of Williamsonia.

Part C

III. Answer any Two questions. Each question carries 10 marks**(2x10=20)**

22. What is heterospory? Describe the life cycle of a heterosporous Pteridophyte.
23. Describe the structure of the gametophytes and sexual reproduction in Selaginella with diagrams.
24. Describe the life cycle of Pinus with suitable diagrams.
25. Describe the structure of two fossil Pteridophytes that you have studied.