



10



19101560

QP CODE: 19101560

10

Reg No :

Name :

BSC DEGREE (CBCS) EXAMINATION , MAY 2019

Fourth Semester

Core Course - BO4CRT04 - PTERIDOLOGY, GYMNASPERMS AND PALEOBOTANY

(Common for B.Sc Botany Model I, B.Sc Botany Model II Environmental Monitoring And Management, B.Sc Botany Model II Food Microbiology, B.Sc Botany Model II Horticulture and Nursery Management, B.Sc Botany and Biotechnology Model III Double Main, B.Sc Botany Model II Plant Biotechnology)

2017 ADMISSION ONWARDS

00985973

Maximum Marks: 60

Time: 3 Hours

Part A

Answer any **ten** questions.

Each question carries **1** mark.

1. Give an example for genus of class Sphenopsida.
2. Name a species of Lycopodium.
3. Which pteridophyte is known as Spikemoss?
4. Name the sporangium bearing leaves in Pteris.
5. What is a Protostele?
6. Why Gymnosperms are called as naked seeded plants?
7. What are Seed Ferns?
8. Name two common species of Cycas in India.
9. Describe the structure of a male flower in Gnetum.
10. Write the name of two resins produced by conifers.
11. What is paper coal?
12. Where is Mandla Plant fossil National Park located?

(10×1=10)

Part B

Answer any **six** questions.

Each question carries **5** marks.

13. Give an account on sexual reproduction in Lycopodium.
14. Explain the morphology of sporophyte in Equisetum.
15. Describe the morphology of sporophyte of Marsilea.
16. Describe the anatomy of sporocarp of Marsilea.
17. Briefly outline Christenhusz system of gymnosperm classification.
18. Describe the structure of ovule in Cycas.
19. Explain with diagram the structure of male cone in Pinus.
20. Give an account on the morphology of Williamsonia.



21. Write an account on role and activities of Birbal Sahni Institute of Palaeobotany.

(6×5=30)

Part C

Answer any **two** questions.

Each question carries **10** marks.

22. Explain a) the morphology of Psilotum, b) stem anatomy of Psilotum with diagram.
23. 'Heterospory is the antecedent of seed habit' explain.
24. Explain the economic importance of pteridophytes.
25. Comment on the affinities of gymnosperms with angiosperms.

(2×10=20)