23130209

QP CODE: 23130209

Reg No : .....

Name : .....

B.Sc DEGREE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS, OCTOBER 2023

Fifth Semester

CORE COURSE - BO5CRT05 - ANATOMY, REPRODUCTIVE BOTANY AND MICROTECHNIQUE

Common to 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 Model II Plant Biotechnology & B.Sc Botany and Biotechnology Model III Double Main

2017 Admission Onwards

73A914F6

Time: 3 Hours Max. Marks : 60

Part A

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. What are the functions of cell wall?
2. What is secondary meristem?
3. What is a casparian band?
4. What is protoxylem?
5. What is phellum?
6. Define early wood.
7. What is one unit of calyx called?
8. What is sporopollenin?
9. Write notes on hypostase and epistase.
10. What is obturator?
11. What is double fertilization?

12. Name a mordant.

(10×1=10)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. What are simple pits? Write a brief account on the structure of a simple pit.
14. Write a brief note on extra cell wall thickening materials.
15. Differentiate between tracheids and vessels.
16. Write a critical note on anatomy of monocot leaf.
17. What is reaction wood? How do you differentiate tension wood and compression wood?
18. Explain the development of microsporangium in Angiosperms.
19. What is endosperm? How is it formed?
20. Describe the different types of polyembryony.
21. Differentiate between smear and squash preparation.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **10** marks.*

22. Briefly explain the non-living inclusions in plant cells.
23. Explain the secondary thickening in Bignonia stem.
24. Explain Peperomia type of embryo sac development.
25. Describe the paraffin method of serial sectioning.

(2×10=20)