



QP CODE: 25019626



25019626

Reg No :

Name :

**B.Sc DEGREE (CBCS)) REGULAR/ IMPROVEMENT/ REAPPEARANCE / MERCY
CHANCE EXAMINATIONS, FEBRUARY 2025**

Fourth Semester

B.Sc Zoology Model I

**Complementary Course - BO4CMT04 - BOTANY - ANATOMY AND APPLIED
BOTANY**

2017 Admission Onwards

C1A603F2

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. What are the components of plasmodesmata?
2. What are idioblasts?
3. What is brachy sclereid?
4. Write two examples of secretory tissues
5. Mention the difference between protoxylem and metaxylem.
6. What are growth rings?
7. What is sunken stomata?
8. Define plant breeding.
9. Give any two methods of plant improvement.
10. Give two examples of pureline Selection.
11. What are clones?
12. What do you meant by dedifferentiation?

(10×1=10)

Part B

*Answer any **six** questions.*

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





13. Describe primary cell wall with suitable diagram.
14. Explain secondary meristamatic tissues.
15. Give an account on pits.
16. With the help of labelled diagram, Explain the structure of Dicot root.
17. Differentiate Dicot and monocot leaf.
18. Discuss the various hydrophytic adaptations of Nymphaea.
19. What is the role of cambium in budding and grafting?
20. Discuss the advantages and disadvantages of artificial seeds.
21. Describe the applications of plant tissue culture.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Briefly describe permanent tissues.
23. Explain the secondary growth in dicot root with the help of diagram.
24. With the help of labelled diagram describe anomalous secondary growth in Bignonia.
25. Give the procedure involved in Hybridisation.

(2×10=20)

