



21102883

QP CODE: 21102883

Reg No :

Name :

B.Sc DEGREE (CBCS) EXAMINATIONS, OCTOBER 2021

Fourth Semester

B.Sc Zoology Model I

Complementary Course - BO4CMT04 - BOTANY - ANATOMY AND APPLIED

BOTANY

2019 Admission only

C33E7526

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. What are the components of cell wall?
2. What is plasmodesmata?
3. Define primary meristems.
4. What are complex tissues?
5. What is protoxylem cavity or protoxylem lacuna?
6. Differentiate between heart wood and sap wood.
7. What is the most important adaptation seen in hydrophytes?
8. Give any two centres in India concerned with plant introduction.
9. Give two examples of mass selection.
10. Give an example for interspecific hybridisation.
11. What is scion?
12. Name the phenomenon of formation of embryos from callus in tissue culture.

(10×1=10)

Part B

*Answer any **six** questions.*

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

13. Explain non-living cell inclusion.
14. Distinguish between meristematic and permanent tissues.
15. Explain simple permanent tissues.





16. With the help of labelled diagram ,Explain the structure of Monocot root.
17. Differentiate Dicot and monocot leaf.
18. What are the morphological and anatomical specialities of Vanada as an epiphyte?
19. What is the role of cambium in budding and grafting?
20. Briefly describe the steps involved in micropropagation.
21. Describe the applications of plant tissue culture.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. With suitable examples, write an essay on secretory 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 an account on the objectives of plant breeding.

(2×10=20)

