

TB214510W

Reg. No :

Name :

B.Sc. DEGREE (C.B.C.S.) EXAMINATION, MARCH 2023

(2021 Admissions Regular, 2020 Admissions Supplementary / Improvement, 2019 & 2018 Admissions Supplementary)

SEMESTER IV - COMPLEMENTARY COURSE 2 (BOTANY)

(For Zoology)

BO4C01B18 - ANATOMY AND APPLIED BOTANY

Time : 3 Hours

Maximum Marks : 60

Part A

I. Answer any Ten questions. Each question carries 1 mark

(10x1=10)

1. What is plasmodesmata?
2. What is the chemical composition of fungal cell wall?
3. Give two examples for secondary meristem.
4. Explain hardwood.
5. Give details on the peculiarity of stomata in dicot and monocot plants.
6. Enumerate the stelar structure of dicot root.
7. What is calyptra?
8. What are velamen roots?
9. Define ephemerals.
10. What is quarantine?
11. What is wide crossing?
12. What are artificial seeds?

Part B

II. Answer any Six questions. Each question carries 5 marks

(6x5=30)

13. Write an explanatory note on mechanical tissues.
14. Enumerate the functions of plant cell wall.
15. Draw the labelled diagram of typical bicollateral vascular bundle.
16. Explain the structure of dicot stem with labelled diagram.
17. Explain periderm formation and draw a labelled diagram.
18. What are pneumatophores? How is it different from the other roots?
19. Give an account on the morphological adaptations of xerophytes.
20. What are the steps involved in plant introduction?
21. Explain the steps of micropropagation.

Part C

III. Answer any Two questions. Each question carries 10 marks

(2x10=20)

22. What are non-living inclusions of the cell? Explain the classification of non living inclusions with examples.
23. Describe anomalous secondary growth in Bignonia stem.
24. Describe the anatomical modifications of Nerium leaf with a labelled diagram.
25. Explain the procedure of plant introduction.