

BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, MARCH 2025
2018, 2019, 2020, 2021, 2022 ADMISSIONS SUPPLEMENTARY
ZOOLOGY SEMESTER IV - COMPLEMENTARY COURSE 2 (BOTANY)
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. Who proposed Korper-Kappe theory?
2. Who proposed the Histogen theory?
3. Name the main component of secondary cell wall.
4. What are medullary rays?
5. What is epiblema?
6. Write a brief note on sapwood.
7. What is the relevance of dendrochronology?
8. Define xerophytes with example.
9. Name two rooted hydrophytes with floating leaves.
10. Define parthenocarpy.
11. Expand NBPGR.
12. Define callus.

Part B**II. Answer any Six questions. Each question carries 5 marks****(6x5=30)**

13. Give a brief account on the extra cell wall materials.
14. Enumerate the functions of plant cell wall.
15. What are the differences between dicot and monocot leaves?
16. Give details on vascular rays.
17. Enumerate the important characters of dicot root with labelled diagram.
18. What are pneumatophores? How is it different from the other roots?
19. Briefly describe the ecological adaptations of plants.
20. Explain the process of emasculation.
21. Give an account on synthetic seeds?

Part C**III. Answer any Two questions. Each question carries 10 marks****(2x10=20)**

22. Describe the different types of tissues studied by you.
23. Write an essay on extra-stelar secondary growth? Draw the structure of lenticels.
24. Describe the anatomical modifications of Nerium leaf with a labelled diagram.
25. What is hybridization? Explain the procedure of hybridization.