

23U127

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Name:

Reg.No:

FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2023

(CBCSS - UG)

(Regular/Supplementary/Improvement)

CC19U BOT1 C01 - ANGIOSPERM ANATOMY AND MICROTECHNIQUE

(Botany - Complementary Course)

(2019 Admission onwards)

Time : 2.00 Hours

Maximum : 60 Marks

Credit : 2

Part A (Short answer questions)

Answer *all* questions. Each question carries 2 marks.

1. How meristems are classified based on position?
2. Briefly describe sclerenchyma.
3. Explain hydathode.
4. What are concentric vascular bundles?
5. Enumerate any four salient features of dicot root.
6. How do you correlate the activity of cambium with changing seasons?
7. Enumerate any four salient features of dicot leaf.
8. What is periderm?
9. What are growth rings?
10. Why heart wood is more durable than sap wood?
11. What is dehydration in paraffin method? Name a reagent used for dehydration.
12. What is a stain? Explain with types.

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

Answer *all* questions. Each question carries 5 marks.

13. Explain the organization of shoot apex by Tunica corpus theory.
14. Xylem is considered as a complex tissue. Substantiate the statement.
15. Give a brief account of the primary structure of monocot stem.
16. Describe the intra stelar secondary growth in dicot stem

17. Briefly explain secondary thickening in a dicot root.
18. Briefly explain anomalous secondary thickening in a dicot root.
19. Describe electron microscope.

(Ceiling: 30 Marks)

Part C (Essay questions)

Answer any *one* question. The question carries 10 marks.

20. Describe the primary structure of a dicot stem.
21. What is the principle of microtome? Explain the various types of microtomes and their applications.

(1 × 10 = 10 Marks)
