

24U134S

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Name:

Reg.No:

FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2024

(CBCSS - UG)

CC19U BOT1 C01 - ANGIOSPERM ANATOMY AND MICROTECHNIQUE

(Botany - Complementary Course)

(2019 to 2023 Admissions - Supplementary/Improvement)

Time : 2.00 Hours

Maximum : 60 Marks

Credit : 2

Part A (Short answer questions)

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

1. Write a short note on Tunica-Corpus theory.
2. What are the different types of wall thickening in xylem vessels?
3. What are laticifers? Explain different types of laticifers.
4. Enumerate any four salient features of dicot root.
5. What is cuticle?
6. Enumerate any four salient features of dicot leaf.
7. Differentiate between fusiform and ray initials.
8. Explain periderm formation.
9. Describe annual rings.
10. Explain the composition of FAA.
11. What is dehydration in paraffin method? Name a reagent used for dehydration.
12. What are acidic stains? Give an example.

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

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

13. What is meristem? Give the salient features of meristematic cells.
14. Add a short note on various types of vascular tissues in angiosperms.
15. Describe the primary structure of a dicot stem.
16. Why heart wood is more durable than sap wood?
17. Briefly explain secondary thickening in a dicot root.
18. Describe electron microscope.

19. Describe the preparation of material for Microtome.

(Ceiling: 30 Marks)

Part C (Essay questions)

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

20. Define permanent tissues. How will you classify them? Describe simple tissues.

21. What is anomalous secondary growth? Discuss the secondary growth in Boerhaavia stem with the help of a diagram.

(1 × 10 = 10 Marks)
