

**FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2025**

(CBCSS - UG)

**CC19UBOT1C01 - ANGIOSPERM ANATOMY AND MICROTECHNIQUE**

(Botany - Complementary Course)

(2019 to 2023 Admissions - Supplementary)

Time : 2.00 Hours

Maximum : 60 Marks

Credit : 2

**Part A (Short answer questions)**Answer ***all*** questions. Each question carries 2 marks.

1. Give a brief account of meristematic tissues.
2. Explain Tunica Corpus theory.
3. What is collenchyma?
4. Phloem is considered as a complex tissue. Substantiate the statement.
5. What is protoxylem lacuna?
6. List any four major differences between dicot leaf and monocot leaf.
7. What is cork cambium?
8. What is periderm?
9. What are growth rings?
10. What is sapwood?
11. List out the agents used in dehydration and clearing.
12. What is vital stains? Give an example.

**(Ceiling: 20 Marks)****Part B (Short essay questions - Paragraph)**Answer ***all*** questions. Each question carries 5 marks.

13. Describe the stinging hairs of Tragia.
14. Give a brief account of the various types of vascular bundles.
15. Describe the primary structure of a dicot stem.
16. Describe the intra stelar secondary growth in dicot stem.

17. Briefly explain secondary thickening in a dicot root.
18. Explain anomalous secondary growth in Boerhaavia.
19. Explain the functioning of a light microscope.

**(Ceiling: 30 Marks)**

**Part C (Essay questions)**

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

20. With suitable labelled diagrams, describe the primary structure of a monocot root.
21. Explain the killing and fixation.

**(1 × 10 = 10 Marks)**

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