D1BBT2101 (S3)	Reg. No
	Name·

FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2024 (Improvement/Supplementary)

BOTANY

GBOT1B01T: ANGIOSPERM ANATOMY AND MICROTECHNIQUE

Time: 2 Hours Maximum Marks: 60

SECTION A: Answer the following questions. Each carries *two* marks. (Ceiling 20 marks)

- 1. Write a note on non-living inclusions.
- 2. Explain briefly about Mineral crystals.
- 3. Describe hydathodes.
- 4. Write a note on Fixatives.
- 5. Comment on Micrometry.
- 6. Write a note on Apical and Histogen Theory.
- 7. Define laticifers.
- 8. What is Aleuorone grains.
- 9. Differentiate between Heart wood and Sap wood.
- 10. Write an account on Microtome.
- 11. Differentiate between schizogenous and Lysigenous Ducts.
- 12. Write a note on Mounting.

SECTION B: Answer the following questions. Each carries *five* marks. (Ceiling 30 marks)

- 13. Give an account on meristematic tissues.
- 14. Describe the principle and working of a compound microscope.
- 15. Write an account on stains.
- 16. Describe Vascular bundles.
- 17. Give an account on reserve food materials found in plants.
- 18. Discuss extra stellar secondary growth in stem and root.
- 19. Explain the paraffin wax method for infiltration and specimen preparation.

SECTION C: Answer any *one* question. The question carries *ten* marks.

- 20. Write an account on anomalous secondary growth in *Boerhaavia* stem
- 21. Explain the working principles, applications and differences between Transmission Electron Microscopy (TEM) and Scanning Electron Microscopy (SEM).