Reg.No	
Name:	***************************************

### FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2022

(Regular/Improvement/Supplementary)

#### **BOTANY**

#### GBOT1B01T: ANGIOSPERM ANATOMY AND MICROTECHNIQUE

Time: 2 Hours

Maximum Marks: 60

## SECTION A: Answer the following questions. Each carries 2 marks (Ceiling 20 Marks)

- 1. What do you mean by middle lamella?
- 2. Comment on growth of cell wall.
- 3. Discuss the glandular features of Nepenthes plants.
- 4. Differentiate between killing and fixing in microscopy.
- 5. Define bicollateral vascular bundles with an example.
- 6. Define sieve area.
- 7. Briefly explain secondary thickening in dicot roots.
- 8. Point out the major differences between hard wood and soft wood
- 9. Define dendrochronology.
- 10. Elaborate FAA.
- 11. Define mounting.
- 12. Comment on SEM.

# SECTION B: Answer the following questions. Each carries 5 marks (Ceiling 30 Marks)

- 13. Briefly explain about hemicellulose in plant cells.
- 14. Give an example for plants showing parallel venation. Discuss its anatomical features.
- 15. What is meant by heart wood? Comment on its economic importance.
- 16. Explain different types of parenchyma.
- 17. Differentiate between Ocular and stage micrometer.
- 18. Comment on the principles of microscopy.
- 19. Briefly explain agents used in Killing and fixing.

### SECTION C: Answer any 1 question. Each carries 10 marks.

- 20. What are meristematic tissues? Explain how it is classified and write a short note on its functions.
- 21. Give a general account of staining tissues in plants. Comment on double staining and vital staining.