| D4BBT2301 | Reg. No |
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Name:

FOURTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2025

(Regular/Improvement/Supplementary)

BOTANY

GBOT4B04T: RESEARCH METHODOLOGY, REPRODUCTIVE BOTANY & PALYNOLOGY

Time: 2 Hours Maximum Marks: 60

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

- 1. Define Scientific methods.
- 2. Differentiate between Molarity and Normality.
- 3. What is meant by Review of Literature.
- 4. Define pH and mention its importance.
- 5. Who laid the foundation to descriptive and correlation statistics?
- 6. Write down any two Journal names with their publisher.
- 7. What is Rf value? Mention its use.
- 8. What are the applications of Spectrophotometer?
- 9. Give the expansion of NCBI. Write down three branches of NCBI.
- 10. State the basic principle of centrifugation.
- 11. Comment on Differential centrifugation.
- 12. Write notes on INFLIBNET.

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

- 13. Describe the structure and function of wall layers.
- 14. Briefly explain the preparation of some common buffers used in biological system.
- 15. Comment on types of observation.
- 16. Describe the latest methods of presentation.
- 17. Explain the structure of dicot embryo with neat labelled diagram.
- 18. What are the rules involved in tabulation?
- 19. Define Chromatography. Briefly explain the types of chromatography.

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

- 20. Write an essay on measures of central tendency with examples.
- 21. Briefly explain different types of pollination.