D5BBT2303 **Reg. No.....**

Name: .....

FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2025
(Regular/Improvement/Supplementary)

BOTANY

GBOT5B08T: TISSUE CULTURE, HORTICULTURE, ECONOMIC BOTANY & ETHNOBOTANY

Time: 2 Hours **Maximum Marks: 60**

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

1. What are micronutrients? Give an example.
2. Comment on jeevani.
3. Write the binomial and family of two oil yielding plants.
4. Write the binomial, family and uses of *Catharanthus*.
5. What are the components of a landscape garden?
6. Define 'Spawn'.
7. Comment on re-differentiation.
8. What is meant by incubation in tissue culture?
9. Mention two advantages of subculturing.
10. State the advantages of drip irrigation.
11. What is seed priming?
12. Write the binomial and family of Banana and Mango,

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

13. Write the binomial, family and uses of gums and resins mentioned in the syllabus.
14. What are the advantages and disadvantages of micropropagation.
15. Comment on composting worms.
16. Write a note on Outdoor gardening.
17. Explain the working principle of autoclave.
18. Write the Ethnobotanical significance of *Curcuma longa*.
19. Discuss about major tribes of South India.

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

20. Explain about *in vitro* secondary metabolite production through cell immobilization and bioreactors.
21. Make a comparative analysis of different plant propagation methods stating their advantages and disadvantages, emphasizing on the various vegetative propagation methods.

(1 x 10 = 10 Marks)