D5BBT2103	Reg.No
	Name:

FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2023

(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. Differentiate between dedifferentiation and re-differentiation.
- 2. What is cellular totipotency?
- 3. Define embryo culture.
- 4. Describe synthetic seeds.
- 5. Comment on the Binomial, family and morphology of useful part of All spice.
- 6. Explain cybridization.
- 7. Differentiate between pruning and training.
- 8. Describe the ethnobotanical significance of *Trichopus zeylanicus*.
- 9. Write the four principles of Bonsai making.
- 10. What is somatic embryogenesis?
- 11. What is Seed Certification?
- 12. What are Tillers?

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

- 13. Explain the various Irrigation techniques used in horticulture.
- 14. Write an account on Binomial, family and morphology of the useful part, of any three Cucurbits studied in your syllabus.
- 15. Discuss seed treatment methods in horticulture.
- 16. Explain bioreactors.
- 17. Give a note on the Binomial, family and morphology of the useful part, and uses of White Dammer, Gum Arabic and Asafoetida.
- 18. Mention the composition of Murashige and Skoog medium.
- 19. What are fertilizers and mention the types.

SECTION C: Answer any one question. Each carries ten marks.

- 20. Write an essay on the importance of ethnobotanical knowledge and TBGRI model of Benefit Sharing.
- 21. Write an essay on micropropagation.

 $(1 \times 10 = 10 \text{ Marks})$