

D 110103

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Name.....

Reg. No.....

**FIFTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION
NOVEMBER 2024**

Botany

BOT 5B 08—TISSUE CULTURE, HORTICULTURE, ECONOMIC BOTANY, ETHNO
BOTANY

(2019 Admission onwards)

Time : Two Hours

Maximum : 60 Marks

Section A

*Answer all questions.
Each question carries 2 marks.
Ceiling : 20 Marks.*

1. Write the ethnobotanical significance of :
 - a) *Aegle marmelose* ; and
 - b) *Curcuma longa*.
2. Write the binomial, family, morphology of the useful part and their uses of two timbers.
3. Briefly explain the methods of seed treatments.
4. What is drip irrigation and how it works ?
5. What is Compost ? Explain the different types.
6. What are the 4 main types of soil ?
7. What are the branches of Horticulture ?
8. Write the working principle of autoclave.
9. Write two advantages and two disadvantages of micropropagation
10. Why is shoot tip culture important ?
11. What somatic cell hybridization ?
12. What are the basic steps in anther culture ?

Turn over

Section B

*Answer all questions.
Each question carries 5 marks.
Ceiling : 30 Marks.*

13. Describe about major tribes of South India.
14. Write the principle of bonsai. How to begin bonsai gardening ?
15. What is the importance of manure compost ?
16. Describe the terms de differentiation and re defferentiation.
17. Briefly explain the role of somaclonal variation in tissue culture ?
18. Write about cell immobilization.
19. Describe the significance of tissue culture medium ?

Section C

*Answer any one question.
The question carries 10 marks.*

20. Write an essay on cultivation and post-harvest management of vegetables and ornamental plants.
21. Explain different phases of micropropagation.

(1 × 10 = 10 marks)