

D 50560

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Name.....

Reg. No.....

**FIFTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION  
NOVEMBER 2023**

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) *Trichopus zeylanicus* ; and
  - b) *Cynodon dactylon*.
2. Write the binomial, family, morphology of the useful part and their uses of two masticatories.
3. Write short notes on oyster mushroom.
4. Comment on moist chamber.
5. Write about two methods of seed quality testing?
6. Name four organic fertilizers for your vegetable garden.
7. Write the significance of sphagnum peat moss in most potting soils?
8. Write short notes on axillary bud proliferation.
9. Write the working principle of Laminar Air Flow.
10. What is the importance of in vitro germplasm conservation?
11. What are Cybrids? Give examples.
12. How synthetic seeds are produced?

**Turn over**

## Section B

*Answer all questions.*

*Each question carries 5 marks.*

*Ceiling : 30 Marks.*

13. Why are traditional botanical knowledge important ?
14. Write the binomial, family, morphology of the useful part and their uses of five
15. Describe the components of soil.
16. What are the advantages of biofertilizers over chemical fertilizers ?
17. Briefly explain the role of somaclonal variation in tissue culture ?
18. Explain the use of Murashige and Skoog medium.
19. What are the applications of totipotency in plant tissue culture ?

## Section C

*Answer any one question*

*The question carries 10 marks.*

20. How do you prepare explants for tissue culture ?
21. What are the different types of irrigation practised for improving crop yield ?

(1 × 10)