

M.Sc. DEGREE EXAMINATION, NOVEMBER 2018
II Year III Semester
Core Major -VIII
PLANT TISSUE CULTURE

Time : 3 Hours

Max.marks :75

Section A ($10 \times 2 = 20$) Marks

Answer any **TEN** questions

1. Totipotency
2. Fumigation
3. Semisolid media
4. PGR
5. Callus
6. Synthetic seed
7. Culture
8. Dihybrid
9. Clone
10. Embryo culture
11. Dedifferentiation
12. Ultra filtration

Section B ($5 \times 5 = 25$) Marks

Answer any **FIVE** questions

13. Explain the procedure of surface sterilization and dry sterilization.
14. Describe the composition of M.S. medium.
15. Explain shoot tip culture.
16. Describe the immobilization of cells.
17. Explain about embryo culture techniques.
18. Explain how isolation of protoplast is carried out?
19. Write about milestones in tissue culture of plants.

Section C ($3 \times 10 = 30$) Marks

Answer any **THREE** questions

20. Explain the design of tissue culture laboratory.
21. Write briefly the preparation of media for invitro culture.
22. Write about initiation and maintenance of callus culture.
23. Describe protoplast culture in detail.
24. Explain the production of virus free plants through meristematic culture

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