

Total No. of Printed Pages:01

SUBJECT CODE NO: U-9927
FACULTY OF SCIENCE AND TECHNOLOGY
M.Sc. (Sem. III) (Botany & Herbal Tech.) (Service Course)
Examination May / June - 2023
Basic Plant Tissue Culture

[Time: 3 Hours]

[Max. Marks: 80]

Please check whether you have got the right question paper.

N. B.

1. Part A is compulsory.
2. Write any five questions from Part B.
3. Draw neat and well labelled diagram.

Part A**Q1** Write a short notes on:**20**

- i) pH Meter
- ii) Explant
- iii) Secondary metabolite
- iv) Laminar air flow
- v) Murashige and Skoog media
- vi) Clonal propagation
- vii) What is Totipotency
- viii) Organ culture
- ix) Embryogenesis
- x) Synthetic seed

Part B

- | | |
|---|-----------|
| Q2 Write an account of basic concepts of Plant Tissue Culture. | 12 |
| Q3 What is Callus Culture? Give detail about its applications. | 12 |
| Q4 What is secondary metabolite? Explain its application in organogenesis. | 12 |
| Q5 Write an essay is protoplast fusion? Explain its applications. | 12 |
| Q6 Write an essay on androgenic and genomic haploid production. | 12 |
| Q7 Describe Organogenesis? Explain its role in horticulture plants. | 12 |
| Q8 Describe Cell suspension culture? Explain its applications. | 12 |