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(Printed Pages 3)

(20425)

Roll No. .. Widushi ...

B.Sc.(Bio-Tech.)-III Year

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Vidushi

B.Sc. (Bio-technology)

Examination, April-2025

Plant Bio-Technology

(B-301)

[B.Sc. (Bio-Tech.)]

Time: Three Hours]

[Maximum Marks: 75

Note: Attempt any five questions out of ten questions. Each question carries

15 marks.

- 1: Explain the Shoot tip culture in Micropropagation?
- 2. Write an essay on the isolation, culture and fusion of plant protoplasts. Discuss the significance of protoplast fusion in plant biotechnology?

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- 3. Explain the process of Embryogenesis and organogenesis and their application?
- 4. Write short notes on any three:
 - (a) Hybrid and Cybrid
 - (b) Artificial seeds
 - (c) Suspension culture
 - (d) Haploid culture
- 5. What is GM crop? Describe the current status and its regulations?
- 6. How can you achieve "embryogenesis" and "organogenesis" in plant tissue culture? Describe the specific nutritional requirements for root and shoot differentiation.
- which genes are directly transferred into plants? Explain how Agrobacterium is used in gene transfer.

- 8. Explain the in vitro methods of ovule culture?
- 9. What is Protoplast isolation? Explain the principle and its application?
- 10. What is physical gene transfer method? Explain its applications in the Plant Biotechnology?