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Reg. No.

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VI Semester B.Sc. Degree Examination, September - 2021

BIOTECHNOLOGY

Plant Biotechnology

(CBCS Scheme)

Paper : VII

Time : 3 Hours

Maximum Marks : 70

Instructions to Candidates:

1. Draw neat labelled diagrams wherever necessary.

SECTION - A

I. Write short notes on the following.

(5×2=10)

- 1) Cytokines.
- 2) Bt.Cotton
- 3) Protoplast Fusion
- 4) Autotrophic Mutants
- 5) IPR.

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SECTION - B

II. Answer any FOUR of the following.

(4×5=20)

- 6) What is Cybridisation? Add a note on its significance.
- 7) Write note on Clonal Propagation.
- 8) What is the pollen culture over anther culture? Give 3 applications of pollen culture.
- 9) Explain Microprojectile method.
- 10) Write a note on Edible Vaccine.

SECTION - C

III. Answer any THREE of the following.

(3×10=30)

- 11) Explain in detail Ovary culture procedure and its applications.
- 12) Write in detail about Micro-Propagation and its applications.

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- 13) What is T-DNA? Describe the Construction of Binary Vector System.
- 14) What are elicitors? Explain the industrial application of Secondary metabolites.
- 15) Define Somatic Embryogenesis. Explain in detail its procedure and significance.

SECTION - D**IV. Answer the following in one word or a sentence each.****(10×1=10)**

- 16) Name any two methods of Sterilization in PTC.
- 17) What is Gibberillin?
- 18) Expand BAP.
- 19) Define Explant.
- 20) What is hypochlorite?
- 21) What is Encapsulation?
- 22) Name a Kanamycin Resistant Gene.
- 23) Give one use of ethylene in PTC.
- 24) What is Flavr Savr.
- 25) Expand GATT.

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