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Total No. of Pages : 02

Max. Marks: 60

Total No. of Questions : 09

B.Tech.(Bio Technology) (Sem.–6) PLANT BIOTECHNOLOGY Subject Code : BTBT-602 M.Code : 71073

Time: 3 Hrs.

Roll No.

INSTRUCTION TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Answer briefly :

- a. Explain Micropropagation.
- b. Define Callus.
- c. What do you mean by organogenesis?
- d. What is meant by bioresource conservation?
- e. Define Transposons.
- f. Explain Ri plasmid.
- g. Molecular farming.
- h. Explain edible vaccine.
- i. Write applications of genetic engineering.
- j. Define Cytoplasmic Male Sterility.

genesis? e conservation?



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SECTION-B

- 2. Give a brief account on technique of plant tissue culture.
- 3. Write a detailed note on somatic embryogenesis.
- 4. Discuss in detail the mitochondrial genomes.
- 5. Explain in brief the role of genetic engineering in abiotic resistance in crop plants.
- 6. Describe in detail the methods of protoplast isolation and fusion.

SECTION-C

- 7 Give a detailed account on mechanism of gene expression in crop plants.
- 8. Describe in detail the role of plant tissue culture in production of secondary metabolites.
- 9. Discuss in detail :

NOTE : Disclosure of identity by writing mobile number or making passing request on any page of Answer sheet will lead to UMC against the Student.

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