Roll No. Total No. of Pages: 02

Total No. of Questions: 09

M.Sc.(BT) (2011 to 2017) (Sem.-3)
PLANT TISSUE CULTURE

Subject Code: MSBT-207 M.Code: 15021

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- 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. Define Organogenesis.
- b. Differentiate cybrids from hybrids.
- c. What do you mean by transgenic plants?
- d. What is meant by Embryo rescue?
- e. Explain Ti and Ri plasmid.
- f. Define Suspension Culture.
- g. Explain in brief antifungal protein.
- h. Explain biodegradable plastic.
- i. Differentiate bar and barnase system.
- j. Define Transgenic plants.

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SECTION-B

- 2. Give a-brief account on-composition of plant tissue culture medium.
- 3. Write a detailed account on suspension culture.
- 4. Discuss Chloroplast Transformation and its success with reference to potato
- 5. Discuss the role of Plant tissue culture in production of abiotic resistance in crop plants.
- 6. Describe methods for viral resistance production in crop plants.

SECTION-C

- 7. Give a detailed account on methods of gene transfer in crop plants.
- 8. Discuss role of plant tissue culture in secondary metabolite production.
- 9. Explain in detail:
 - a. Molecular farming
 - b. Gene Silencing

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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