Roll No.						Total No. of Pages: 0

Total No. of Questions: 08

M.Tech. (Bio. Tech.) (Sem.-3)
CELL AND TISSUE CULTURE

Subject Code: MTBT-201 M.Code: 23016

Time: 3 Hrs. Max. Marks: 100

INSTRUCTIONS TO CANDIDATES:

- 1. Attempt any FIVE questions in ALL.
- 2. Each question carries TWENTY marks.
- Q1. Describe about various types of Tissue culture techniques. Discuss their methods and applications.
- Q2. What are animal cell bioreactors? Discuss methods for large scale culture of animal cells.
- Q3. a) Elaborate on the use of of animal cell cultures for in drug testing.
 - b) Discuss method of production and applications of monoclonal antibodies.
- Q4. Explain methodology of chloroplast engineering. Discuss its applications.
- Q5. a) What is the molecular basis of plant stress resistance? Elaborate.
 - b) Write a note on Marker assisted selection.
- Q6. Write a note on:
 - a) Edible vaccines.
 - b) Somatic cell fusion.
- Q7. a) Write a note on virus induced gene silencing.
 - b) Elaborate on Cloning for production of transgenic animals.
- Q8. a) Discuss the role of Molecular markers in crop improvement.
 - b) What is QTL Mapping? How is it applied?

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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