



Roll No.

--	--	--	--	--	--	--	--	--	--

Total No. of Pages : 01

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 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.

