

Total No. of Pages : 01

M.Code : 23016

Max. Marks : 100

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?

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