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M.Tech. (Bio Tech) (2018 Batch) (Sem.-2)
CELL AND TISSUE CULTURE (Elective-III)

Subject Code : MTBT-205-18 M.Code : 76050

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- 1.Attempt any FIVE questions out of EIGHT questions.
- 2. Each question carries TWELVE marks.
 - 1. What is animal cell bioreactor? Describe reactor systems for large scale production using animal cells.
 - 2. What is cell immobilization? Describe micro and macro carrier cultures with suitable examples. Also highlight advantages and disadvantages in each case.
 - 3. What are monoclonal and polyclonal antibodies? Describe the production and applications of monoclonal antibodies for diagnosis and therapy.
 - 4. What is gene therapy? Describe cloning from short-term and long-term cultured cells with suitable examples.
 - 5. What are signalling pathways? Describe the molecular and biochemical basis of plant-disease resistance.
 - 6. What are edible vaccines? Describe the applications of genetic engineering in large scale production of pharmaceuticals with suitable examples.
 - 7. What is molecular breeding? Describe the role of molecular markers in crop and farm animal improvement.
 - 8. Describe briefly use of plants and animals for production of nutraceuticals with suitable examples.

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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