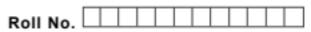


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M.Pharmacy (Pharmacogonosy) (Sem.-2) MEDICINAL PLANT BIOTECHNOLOGY Subject Code : MPG-201T M.Code : 74949

Time : 3 Hrs.

Max. Marks : 75

INSTRUCTIONS TO CANDIDATES :

- 1. Attempt any FIVE questions out of SIX questions.
- 2. Each question carries FIFTEEN marks.
- Describe briefly prospects for development of plant biotechnology as a source of medicinal agents. Also highlight its applications in pharmacy.
- Describe micropropagation of medicinal and aromatic plants. Also highlight hairy root and multiple shoot cultures and their applications.
- Discuss secondary metabolism in tissue cultures with emphasis on production of medicinal agents.
- What is a bioreactor? Describe bioreactor for pilot and large scale cultures of plant cells and retention of biosynthetic potential during cell culture.
- Describe the applications of genetic and molecular biology in pharmacognosy with suitable examples.
- 6. Write short notes on
 - a) Production of ergot alkaloids
 - b) Single cell proteins
 - c) Enzymes of pharmaceutical interest

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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