

Roll No.

Total No. of Pages : 01

Total No. of Questions : 06

M.Pharmacy (Pharmacognosy) (Sem.-2)
MEDICINAL PLANT BIOTECHNOLOGY

Subject Code : MPG-201T

M.Code : 74949

Date of Examination : 04-07-22

Time : 3 Hrs.

Max. Marks : 75

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions out of SIX questions.
2. Each question carries FIFTEEN marks.

1. How genetic and molecular biology can be applied to pharmacognosy? Describe the applications of plant biotechnology in pharmacy and allied fields.
2. What is protoplast fusion? Describe the gene transfer mechanism in plants and their applications.
3. Write an essay on secondary metabolism in tissue culture with emphasis on the production of medicinal agents.
4. What are transgenic plants? Describe the applications of PCR in plant genome analysis.
5. Describe briefly single cell proteins, production of ergot alkaloids and enzymes of pharmaceutical interest.
6. Discuss different methods of cloning of plant cells. Also, highlight advantages and disadvantages of plant cell cloning.

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.