QP CODE: 211330	Reg. No:
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Second Semester M. Pharm Degree Regular/Supplementary Examinations November 2024

M.Pharm (Pharmacognosy)

Paper I: Medicinal Plant Biotechnology (MPG 201T)

(Common for 2017 and 2019 Scheme)

Time: 3 Hours Total Marks: 75

- Answer all questions to the point neatly and legibly Do not leave any blank pages between answers
 Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary.

Essays (3x10=30)

- 1. Protoplast fusion techniques and its applications.
- 2. Explain in detail about secondary metabolism in tissue cultures with emphasis on the production of medicinal agents.
- 3. Production of ergot alkaloids by fermentation technology.

Short Notes (9x5=45)

- 4. Protein replication.
- 5. Hairy root culture.
- 6. Immobilization techniques of plant cell.
- 7. Methods used in gene identification and sequencing.
- 8. Any two enzymes of pharmaceutical interest.
- 9. Sterilization methods involved in plant tissue culture.
- 10. Different methods of cloning.
- 11. Methods used in the gene identification.
- 12. Recombinant DNA technology.
