

QP CODE: 211330

Reg. No:.....

**Second Semester M. Pharm Degree Supplementary Examinations
December 2023**

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. Elaborate upon the application of fermentation technology in pharmacy.
2. Discuss in detail about the use of PCR in plant genome analysis.
3. Describe DNA recombinant technology

Short Notes

(9x5=45)

4. Hairy root culture.
5. Protoplast fusion.
6. Cloning and its applications in pharmacognosy.
7. Biotransformation.
8. Protein replication.
9. Enumerate sources of enzymes of pharmaceutical importance.
10. Transgenic plants
11. Sterilization methods in plant tissue culture.
12. Production of secondary metabolites by plant tissue culture
