

QP CODE: 211330

Reg. No:.....

**Second Semester M. Pharm Degree Regular/Supplementary Examinations
February 2021**

M.Pharm (Pharmacognosy)

Paper I: Medicinal Plant Biotechnology (MPG 201T)

Time: 3 Hours

Total Marks: 75

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essays

(3x10=30)

1. Discuss the production of ergot alkaloids.
2. Describe the application of PCR in plant genome analysis.
3. Discuss about hairy root multiple shoot cultures and its application

Short Notes

(9x5=45)

4. Micro propagation of medicinal and aromatic plants.
5. Immobilization techniques.
6. Different methods of cloning.
7. Biotransformation.
8. Precursor and elicitors on production of secondary metabolites.
9. Enzymes of pharmaceutical interest.
10. Transgenic plants.
11. DNA recombinant technology.
12. Bioreactors for culture of plant cells
