

QP CODE: 211330

Reg. No:.....

**Second Semester M. Pharm Degree Regular/Supplementary Examinations
May 2022**

M.Pharm (Pharmacognosy)

Paper I: Medicinal Plant Biotechnology (MPG 201T)

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. Discuss in detail about structure and complicity of genome.
2. Applications of plant biotechnology in pharmacy.
3. Describe in detail about organogenesis and embryogenesis

Short Notes

(9x5=45)

4. Cell signaling.
5. Protoplast fusion culture and its application
6. Regulation of gene expression.
7. Synthetic seed.
8. Single cell proteins.
9. Gene transfer in plants and their application.
10. Sterilization methods involved in tissue culture.
11. Advantages and disadvantages of plant cell cloning.
12. Methods used in gene identification
