

QP CODE: 211330

Reg. No:.....

Second Semester M.Pharm Degree Examinations July 2019

M.Pharm (Pharmacognosy)

Paper I: Medicinal Plant Biotechnology (MPG 201T)

(2017 Scheme)

Time: 3 Hours

Total Marks: 75

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essays

(3x10=30)

1. Explain the fermentation method in the production of ergot alkaloids
2. What is bio transformation. Explain the bioreactors used in tissue culture technique for mass production of phyto constituents of medicinal importance
3. Explain DNA recombinant technology. Discuss about genetic code.

Short Notes

(9x5=45)

4. Methods of gene transfer in Plants
5. Role of precursors and elicitors in the production of secondary metabolites
6. Single cell proteins and its applications
7. Role of PCR in plant genome analysis
8. Cell signaling and its significance
9. Advantages and disadvantages of plant cell cloning
10. Explain protein replication methods
11. Tissue culture techniques for organogenesis production
12. Agents used to sterilize explants
