

FACULTY OF PHARMACY**M. Pharmacy (Pharmacognosy) II – Semester (PCI) (Main) Examination, Aug 2019****Subject: Medicinal Plant Biotechnology****Time: 3 Hrs****Max. Marks: 75****Note: Answer any five questions. All questions carry equal marks.**

1. Write a note on DNA recombinant technology
2. Write short notes on
 - a) Genetic code
 - b) Biotransformation using plant cells
3. Write a note on Hairy Root culture
4. Write short notes on
 - a) Production of Ergot alkaloids
 - b) Different types of Bioreactors used in plant cell culture
5. Write short notes on
 - a) Molecular Pharmacognosy
 - b) Applications of PCR in plant genome analysis
6. What is Micropropagation? Discuss the various steps involved in micropropagation of medicinal plants and discuss their advantages and disadvantages.
7. What is plant cell Immobilization. Describe the various methods of plant cell immobilization and discuss their advantages and disadvantages.
8. What are transgenic plants. Discuss the principle, procedure, advantages and disadvantages of any five direct gene transfer techniques.
