

FACULTY OF PHARMACY

M. Pharmacy (Pharmacognosy) II-Semester (PCI) (Main) Examination,
August 2018

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
 - a) Genetic Code 5M
 - b) Application of transgenic plants with examples 10M
2. Discuss the following with examples
 - a) Synthetic seeds 10M
 - b) Sterilization techniques involved in plant tissue culture 5M
3. a) Differentiate organogenesis from embryogenesis and add a note on embryogenesis 12M
b) Elaborate on various Precursors used in production of secondary metabolites 3M
4. Write a note on hairy root culture. 15M
5. a) Explain the production of ergot alkaloids 7M
b) Write the application of PCR in plant genome analysis. 8M
6. Define immobilization and discuss the advantages, disadvantages and different methods of immobilization techniques. Write the applications of immobilization 15M
7. a) Discuss about different types of bioreactors used for plant cell culture. 10M
b) Write a short note on molecular pharmacognosy 5M
8. Discuss the different methods of direct gene transfer in plants. 15M
