

FACULTY OF PHARMACY

**M. Pharmacy (Pharmacognosy) II – Semester (PCI) (Suppl.) Examination,
January 2020**

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 synthetic seeds.
- 2 Write abt :
 - a) Applications of Plant Biotechnology in Pharmacy.
 - b) Different methods of sterilization in plant tissue culture.
- 3 Differentiate Zygotic embryogenesis from Somatic embryogenesis and add a note on somatic embryogenesis.
- 4 Discuss the different techniques for Immobilization of plant cells and write their applications.
- 5 List the various secondary metabolites produced using plant tissue culture and describe the production of any one of them in detail.
- 6 Write a note on Hairy Root culture.
- 7 Write short notes on
 - a) Molecular Pharmacognosy
 - b) Single cell protein
- 8 What are transgenic plants? Discuss the different methods of gene transfer in plants.
