

FACULTY OF PHARMACY

**M. Pharmacy (Pharmacognosy) I-Semester (PCI) (Main & Backlog) Examination,
January 2020**

Subject: Phytochemistry

Time: 3 hrs

Max. Marks: 75

Note: Answer any five Questions. All Questions carry equal marks.

- 1 a) Explain the concept of Radio tracing technique and methods to detect the radioactive tracers in biosynthetic studies.
b) Give the isolation and structural features of quinine. 10+5
- 2 a) Describe the methods of drug discovery and explain the lead optimization.
b) Write a note on artemesin. 10+5
- 3 Give an informative note on 5+5+5
a) Andrographolides b) Withanolides c) Guggulsterone
- 4 Describe the types of extracts and discuss the principles and methods of extractive technique. 15
- 5 a) Discuss the phases of clinical trials. 8+7
b) Explain the principles, instrument and application of flash chromatography.
- 6 Describe the structural features and elucidate the structures using spectroscopic characters for 7+8
a) Menthol b) Nicotine
- 7 Discuss the principle, techniques and application of HPTLC technique. 15
- 8 Give the srce, structural features and Biosynthesis of Digitoxin. 15
