

FACULTY OF PHARMACY

M. Pharmacy (Pharmacognosy) I-Semester (PCI) (Suppl.) Examination, August 2018

Subject: Phytochemistry

Time: 3 Hrs

Max. Marks: 75

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

- 1 Write the definition and principles of extraction and types of extracts. Describe various extraction techniques with principles, merits and demerits. 15
- 2 Explain the instrumental technique and applications of 7+7
 - (i) Super critical Fluid extraction technique.
 - (ii) HPTLC
- 3 (a) Describe the concept of tracer technique and discuss the methods of detectors used in tracer technique.
(b) Write the chemistry of Glycyrrhizin. 10+5
- 4 (a) Discuss the importance of natural products in discovery of drugs. 7+7
(b) Explain the selection of lead structure and optimization.
- 5 Give the source, spectral characters and structural elucidation of Caffeine. 15
- 6 Write about
 - (i) Biosynthesis of sennosides.
 - (ii) Phases of clinical studies
 - (iii) Chemistry of artemisinin. 5+5+5
- 7 Give the source, Chemical structure and isolation of
 - (i) Piperine (ii) Quinine (iii) Caffeine 5+5+5
- 8 Write the sources, chemistry and mechanism of action of
 - (i) Digitoxin (ii) Vinca alkaloids (iii) Taxol 5+5+5
