

Code No. 1159/PCI

FACULTY OF PHARMACY

M. Pharmacy (Pharmacognosy) I-Semester (PCI) (Main) Examination, February 2018

Subject: Phytochemistry

Time: 3 Hrs Max. Marks: 75

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

- (a) Write the chemistry, biosynthesis, mechanism of action and chemical tests for Digitoxin.
 - (b) Write the chemistry and analogs of artemesin.

10+5

- 2 Write abt the chemistry of
 - (i) Quinine
 - (ii) Withanolides
 - (iii) Sennosides

5+5+5

3 (a) Define and write the selection and optimization of lead compnds in Drug Discovery with suitable examples.

10+5

4 Discuss spectral characters to elucidate the chemical structure of Menthol.

15

- 5 Write the srce, chemical structure and method of isolation of
 - i) Quinine ii) Sennosides
- iii) Piperine.

5+5+5

6 Write a note

(i) Phases of clinical trials

 $(7\frac{1}{2})$

(ii) Applications of HPTLC

- $(7\frac{1}{2})$
- Define and describe different types of extraction and extract techniques with advantages and disadvantages of each technique.
- 8 Explain the principle, instrumentation, detectors and applications of HPTLC.

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