

Time & Date: 05-Dec-2018 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal Academy of Higher Education, Manipal MPharm Theory End-Semester Examinations.

Specialization: Pharmacognosy

Date: 05-12-2018

Phytochemistry [PCO-MPG103T]

Marks: 75

Duration: 180 mins.

SECTION - A

Answer all the questions.

Answer the following (10 marks x 5 = 50 marks)

- 1) Discuss various phases of clinical trials with special reference to herbal drugs (10)
- 2) Elaborate on Soxhlet and Percolation method of extraction (10)
- 3) Describe Gas Liquid Chromatographic technique with their advantages and disadvantages. (10)
- 4) Explain HPTLC technique with its applications (10)
- 5) Describe Shikimic acid and Isoprenoid pathways in the biosynthesis of secondary plant metabolites. (10)

SECTION - B

Answer all the questions.

Answer the following (5 marks x 5 = 25 marks)

- 6) Method of isolation of Guggulsterone (5)
- 7) Phytochemical finger printing (5)
- 8) Spectral characteristics of Carvone. (5)
- 9) Target identification and validation for herbal drug discovery. (5)
- 10) Precursor product sequence and Double and multiple labeling. (5)

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