

Exam Date & Time: 16-Dec-2022 (10:00 AM - 01:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

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

**Phytochemistry [PCO-MPG103T]**

**Marks: 75**

**Duration: 180 mins.**

### SECTION - A

**Answer all the questions.**

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

- 1) Write a detail note various sources for drug discovery. Add a note on lead optimization. (10)
- 2) Elaborate on Soxhlet and Percolation method of extraction. (10)
- 3) Give the spectral characteristics of Glycyrrhizin and Carvone. (10)
- 4) Discuss in detail about Instrumentation and applications of HPTLC. (10)
- 5) Describe Shikimic acid and Isoprenoid pathways in the biosynthesis of secondary metabolites. (10)

### SECTION - B

**Answer all the questions.**

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

- 6) Give the spectral characteristics of Caffeine. (5)
- 7) Application of GCMS in the characterisation of Herbal extracts. (5)
- 8) Explain the detail method of isolation of Guggulsterone. (5)
- 9) What is serendipity? Explain with suitable examples. (5)
- 10) Describe Gas Liquid Chromatographic technique with their advantages and disadvantages. (5)

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