

Exam Date & Time: 11-Mar-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 - S2]

Marks: 75

Duration: 180 mins.

SECTION - A

Answer all the questions.

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

- 1) 1A. Discuss in detail about various sources in drugs discovery (7 Marks)
1B. Write a note on Serendipity (3 Marks) (10)
- 2) Elaborate on Maceration and Counter current method of extraction (5+5 = 10 Marks) (10)
- 3) Give the spectral characteristics of Carvone and Citral (5+5 = 10 Marks) (10)
- 4) Write a descriptive note on Instrumentation of HPTLC with its applications (7+3 = 10 Marks) (10)
- 5) Explain biosynthesis, procedure for isolation and spectral characteristics of Umbelliferone (4+3+3 = 10 Marks) (10)

SECTION - B

Answer all the questions.

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

- 6) Explain detailed method of isolation of Strychnine and Piperine (5)
- 7) Describe the role of HTS in drug discovery (5)
- 8) Give the spectral characteristics of Kaempferol (5)

- 9) Briefly discuss structural elucidation of Morphine by degradation method (5)
- 10) Describe Gas Liquid Chromatographic technique with their advantages and disadvantages (5)

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