

Exam Date & Time: 19-Dec-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

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

Chemistry of Natural Products [PCH-MPC104T - S3]

Marks: 75

Duration: 180 mins.

SECTION - A

Answer all the questions.

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

- 1) Explain the nomenclature and stereochemistry of steroid hormones. Discuss the chemistry of Cortisone and Testosterone. (10)
- 2) Discuss the structural elucidation of Reserpine and explain the stereochemistry of alkaloids. (10)
- 3) Classify terpenoids by giving one structure from each class. Explain the general structural elucidation of di terpenoids. (10)
- 4) Discuss the various tools of biotechnology used in the discovery of drugs with suitable examples. (10)
- 5) Explain the chemistry of Morphine, Cocaine and Coumarin (10)

SECTION - B

Answer all the questions.

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

- 6) Explain the chemistry of Prostaglandins and justify, how they are used in the development of new drug. (5)
- 7) Explain the chemistry of Cephalosporins and Erythromycins . (5)
- 8) Write the SAR for Taxol and give their specific applications. (5)
- 9) Enlist four important marine natural products with their anti cancer property (5)
- 10) Discuss the chemistry of Quercetin . (5)

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