3/14/22, 11:21 AM PCH-MPC104T - S2

Exam Date & Time: 14-Mar-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 - S2]

Duration: 180 mins. Marks: 75 **SECTION - A** Answer all the questions. Answer the following (10 marks x = 50 marks) 1) Explain how PCR, protein engineering and gene therapy works as useful tools in new drug discovery (10)Give the structural elucidation and synthesis of atropine 2) (10)3) Explain the chemistry of quinine and azithromycin (10)4) How enzymes support organic synthesis and enantiomeric separation of organic compounds? Justify (10)with suitable examples 5) Explain the stereochemistry of steroids and discuss in detail about adreno corticoids (10)**SECTION - B** Answer all the questions. Answer the following (5 marks x = 25 marks) Discuss the chemistry of etoposide 6) (5) Write the SAR of quinine 7) (5) 8) Classify marine natural products with their applications (5)

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9) What are eicosanoids? Classify them in detail (5)

10) Classify flavonoids with examples and explain the isolation procedures of flavonoids (5)

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