xam Date & Time: 07-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: Pharmaceutical Chemistry Date: 07-12-2018

Chemistry of Natural Products [PCH-MPC104T]

Marks: 75

?)

d----

Duration: 180 mins. SECTION - A Answer all the questions. Answer the following (10 marks x = 50 marks) Explain the principle and applications of gene therapy, hybridoma technology and r DNA technology Classify flavonoids giving one structure from each class and explain the general (10)Explain the chemistry of taxol and podophyllotoxin (10)Explain the structural elucidation of atropine and discuss the stereochemistry of (10)Enlist the various enzymes used in organic synthesis with suitable examples and (10)(10)SECTION - B swer all the questions. swer the following (5 marks x 5 = 25 marks) Write the SAR for quinine and give their specific applications Classify cephalosporins and give one structure under each generations with specific (5)examples. Classify terpenoids giving one structure from each class and explain the isolation (5)What are glucocorticoids and mineralocorticoids and discuss the nomenclature and (5)stereochemistry of steroids. Enlist four important marine natural products with their applications. (5)

(5)