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.

Advanced Medicinal Chemistry [PCH-MPC103T - S2]

Marks: 75 **Duration: 180 mins. SECTION - A** Answer all the questions. Answer the following (10 marks x = 50 marks) 1) Explain the catalytic role of enzymes with suitable examples (10)Write a note on mixed combinatorial synthesis giving suitable example 6M 2) In the solution phase synthesis what is the role of soluble polymers and scavenger resins? What are (10)their advantages? 4 M 3) Explain the design of analogues from natural sources with 5 examples. (10)4) Describe the procedure in the design of direct analogues. (10)5) Discuss the types of receptors and Drug-receptor theories with example (10)**SECTION - B** Answer all the questions. Answer the following (5 marks x = 25 marks) Explain the method of producing analogues by isosteric variation with examples 6) (5) Write a note on lead identification and lead modification 7) (5)

3/11/22, 11:42 AM	PCH-MPC103T - S2	
8)	Discuss various prodrugs for the modulation of pharmacokinetic properties	(5)
9)	Write a note on stereochemistry of drugs and their effect on pharmacokinetic properties	(5)
10)	Explain removal of amino acid and alanine scanning as strategies in peptidomimetic drug design	(5)

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