Question Paper

Exam Date & Time: 01-Dec-2017 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

MANIPAL COLLEGE OF PHARMACEUTICAL SCIENCES END SEMESTER THEORY EXAMINATIONS - NOVEMBER 2017 PROGRAM : MPHARM SEMESTER I

DATE: 01-12-2017 TIME: 2:00PM - 5:00PM

Advanced Medicinal Chemistry [PCH-MPC103T]

Marks: 50 Duration: 180 mins.

Answer the following (5 marks x = 40 marks)

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1)	Explain the various theories proposed for drug receptor interactions.	(5)
2)	What are important properties that an ideal enzyme inhibitor should possess?	(5)
3)	List out the strategies necessary for a LEAD modification. Explain any three in detail.	(5)
4)	Enumerate the applications of prodrugs.	(5)
5)	Explain alteration of interatomic distance and bioisosteric replacement as tools in analogue design	(5)
6)	Discuss the solid phase technique in combinatorial synthesis	(5)
7)	What are peptidomimetics? Explain the incorporation of conformationally rigid analogues in peptidomimetic design	(5)
8)	How is chirality important in drug? Explain how geometrical isomer effects pharmacokinetics and pharmacodynamics properties of drugs	(5)

Answer the following with specific answers (2 marks x = 10 marks)

9) Justify that Penicillin is a suicide inhibitor. (2)

A)

B)	What is Michaelis-Menton equation? Mention its significance.	(2)
C)	Give an example of a rigid analogue in analogue design	(2)
D)	Give an example of Peptidomimetic drug design by peptide bond isosteres	(2)
E)	What are the applications of HTS?	(2)

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