Duration: 180 mins.

m Date & Time: 05-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: 05-12-2018

Advanced Medicinal Chemistry [PCH-MPC103T]

SECTION - A Answer all the questions. Answer the following (10 marks x 5 = 50 marks) Explain the various strategies for finding/identifying a Lead molecule 1) (10)Explain homology by monoalkylation and homology in cyclic compounds as tools in 2) analogue design (10)3) A. Discuss the different types of receptors with example. (5) B. Explain the categories of the enzyme inhibitors with examples. (5) (10)4) A. What are prodrugs? Give examples. Explain the different types of prodrugs with B. What is Michaelis-Menton equation? Mention its significance. List out the (10)advantages of prodrugs. (5) A. Write about deconvolution techniques used in combinatorial chemistry.(5) 5) B. Write short notes on cell based assays and biochemical assays.(5) (10)SECTION - B Answer all the questions. Answer the following (5 marks x 5 = 25 marks)

Marks: 75

6)	What is the goal of fragment based drug design? Explain the process of FBDD	
7)		(5)
8)	Outline the methods used in high throughput screening	(5)
0)	Outline Merrifield's method of peptide synthesis.	(5)
9)	Classify stereoisomers. Explain with examples, where the stereoisomers exhibit independent therapeutic activity, one isomer is inactive, distomer having harmful effects and eutomer, distomer have opposite activity.	(5)
10)	Write a note on analogues by Vinology in analogue design	
	and the state of t	(5)