Question Paper

Exam Date & Time: 05-May-2018 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

MANIPAL COLLEGE OF PHARMACEUTICAL SCIENCES **END SEMESTER THEORY EXAMINATIONS - MAY 2018** PROGRAM: MPHARM SEMESTER 2 (PHARMACEUTICAL CHEMISTRY)

DATE: 05/05/2018 TIME: 02:00 PM - 5:00 PM

Advanced Organic Chemistry II [PCH-MPC202T]

Marks: 50 Duration: 180 mins.

a

Answer all the questions.

Answer the following (5 marks \times 8 = 40 marks)

Answer all the guestions.				
	b			
8)	Discuss in detail asymmetric hydrogenation of alkenes.	(5)		
7)	Explain chiral separation by column chromatographic method.	(5)		
6)	Enlist the important catalyst and building blocks used in asymmetric aldol reactions.	(5)		
5)	What are the different types of chirality transfer and discuss intra annular chirality transfer with an example.	(5)		
4)	Give the working principle and synthetic applications of continuous flow reactors.	(5)		
3)	Define pericyclic reactions. Mention the types with examples.	(5)		
2)	Write a note on broad perspectives of peptide synthesis.	(5)		
1)	Discuss in detail the principle, mechanism and applications of microwave synthesis.	(5)		
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Answer the following with specific answers (2 marks $x = 10$ marks)			
9)	Mention applications of ultrasound assisted reactions.	(2)	
A)			
B)	What is meant by side reactions in peptide synthesis?	(2)	
C)	Write the significance of bio catalyst.	(2)	

- D) Write two examples for metal catalyzed organic synthesis. (2)
- Write the importance of Wilkinson's catalyst and Ziegler-Natta catalyst.

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