Exam Date & Time: 15-Jul-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal Academy of Higher Education, Manipal MPharm Theory End-Semester Examinations.

ADVANCED ORGANIC CHEMISTRY II [PCH-MPC202T-S1]

Marks: 75	Duration: 180	mins.
SECTION - A		
Answer all the questions.		
Answer the following (10 marks $x = 50$ marks)		
1)	Define Green chemistry. Mention its importance. Discuss any five important principles of green chemistry with examples.	(10)
2)	What are pericyclic reactions? How different these are from conventional reactions. Mention the types with examples.	(10)
3)	Enlist the important catalyst and building blocks used in asymmetric hydrogenation reactions of carbon carbon double bonds and alpha alkylation reactions.	(10)
4)	What is resolution ?Explain dynamic kinetic resolution and metal catalyzed reactions with examples .	(10)
5)	What are the different types of asymmetric aldol reactions? and discuss substrate controlled aldol reactions .	(10)
SECTION - B		
Answer all the questions.		
Answer the following (5 marks $x = 25$ marks)		
6)	Write a note on protective and deprotective groups used in peptide synthesis.	(5)
7)	Give the structures of any four coupling reagents used in peptide synthesis.	(5)
8)	Propose an ideal class of solvents for microwave assisted organic synthesis. What is the basis for the selection of the solvent?	(5)
9)	What are the uses of Wilkinson catalysts and Ziegler Natta catalysts?discuss with examples.	(5)
10)	Explain bio catalysis and phase transfer catalysis with examples.	(5)
End		