Exam Date & Time: 09-Sep-2021 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

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

Advanced Organic Chemistry II [PCH-MPC202T]

	Marks: 75	Duration: 180 i	mins.	
	SECTION - A			
	Answer all tl	he questions.		
	Answer the following (10 marks $x = 50$ marks)			
	1)	What are the different types of chirality transfer? Explain chelation enforced chirality transfer.	(10)	
	2)	What is green synthesis? Mention its advantages over conventional synthesis. Give any four principles of green chemistry with examples.	(10)	
	3)	Enlist the important catalyst and building blocks used in asymmetric aldol reactions. Discuss Hetero and Retro Dields -Alder reactions with examples. (5+5=10) Marks	(10)	
	4)	A) Explain about cycloaddition reactions in detail. B) What is Jablonski Diagram? Explain with neat and labelled diagram. (5+5=10) Marks	(10)	
	5)	Write a note on protective and deprotective groups used in peptide synthesis. 5 marks What are greenhouse gases? Give their effects on environment. 5 marks	(10)	
SECTION - B				
Answer all the questions.				
	Answer the fo	ollowing (5 marks x $5 = 25$ marks)		
	6)	Discuss in detail the asymmetric catalytic hydrogenation of carbon carbon double bond and dihydroxylation reactions.	(5)	
	7)	What is meant by side reactions in peptide synthesis? Give few examples.	(5)	
	8)	What are the different types of Photochemical reactions? Give examples.	(5)	
	9)	Write a note on methods used to immobilize the enzyme.	(5)	
	10)	Explain about deactivation of catalysts.	(5)	
	End			