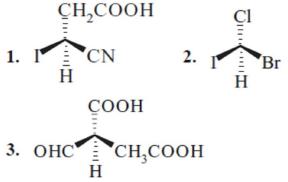
Enrolment No. \_\_\_\_\_

## PARUL UNIVERSITY FACULTY OF PHARMACY M.Pharm. Summer 2018-19 Examination

Semester: 2 Subject Code: MPC202T Subject Name: Advance Organic Chemistry-II		Date: 17/04/2019 Time: 10:00am to 1:00pm Total Marks: 75
Instructions:		
1. Figures to the right indicate maximum marks.		
2. N	lake suitable assumptions wherever necessary.	
Q.1	Essay Type Questions. (any 2 out of 3) (15 Marks Each)	(30)
1.	What is Green Chemistry? Explain principles of green chemistry with synth	etic application.
2.	Write any five reaction which can occur by ultrasound assisted reaction.	
3.	Write Solid Phase and Solution phase synthesis in peptide synthesis.	
Q.2	Short Essay Type Questions. (any 5 out of 6) (5 Marks Each)	(25)
1.	Write any five Microwave assisted organic synthesis.	
2.	Discuss Ziggler-Natta Catalyst in detail.	
3.	Write short note on Cycloaddition reaction.	
4.	Outline Jablonski diagram of Photochemistry.	
5.	Discuss resolution of racemic mixture.	
6.	Write difference between FMOC and t-BOC in peptide synthesis.	
Q.3	Short Answers. (2 Marks Each)	(20)
1.	Discuss Cis-Trans and E-Z isomer in brief.	
2.	Define (i) enantiomer (ii) diastereomer	
3.	Explain Homogeneous vs Heterogeneous catalyst in brief.	
4.	Explain electrocyclic reaction in brief.	
5.	Discuss Photorearrangement in brief.	
6.	Find out absolute configuration of following compound	
	CH <sub>2</sub> COOH Cl	



- 7. Write abbreviation and structure formula of DMAP and DIPEA.
- 8. Discuss Transition Metal Catalyst in brief.
- 9. Explain Cram's rule in asymmetric synthesis with example.
- 10. Discuss example of Phase Transfer Catalyst in brief.