Seat No.: Enrolment No  GUJARAT TECHNOLOGICAL UNIVERS			
		ERSITY	
	M.PHARM- SEM-II–EXAMINATION – JULY		
•	ect code: 2920101	Date: 06/07/2012	
Subject Name: Advanced Organic Chemistry - II			
Time: 10:30 am – 01:30 pm Total Marks: 8			
1. 2.	ructions: Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1.	a. Why Green chemistry is a need of present time? What are the different methods and		
	approaches are used in it? Explain each in detail with suitable exa	=	
	b. Write in brief about nanochemistry and ultrasound reaction.	06	
Q.2.	a. Define: Reterosynthetic analysis, Synthon and Functional group	p interconversion 03	
	b. Give general guidelines to be followed for reterosynthesis.	03	
	c. Derive route of synthesis using disconnection approach for the	following	
	1. Ciprofloxacin 2. Cetirizine 3. Ibuprofen	10	
Q.3.	a.Microwaves are very effective source of energy in organic synth principle, limitation and application with suitable examples.	nesis – Justify. Discuss its	
	b. What are different methods used to resolve racemic mixture?	04	
	c. Write a note on Sonogashira reaction.	04	
Q.4.	Write a note on following 1. Vilsmeir Hack reaction 2. Suzuki Coupling reaction 3. Pinner reaction 4. Heck reaction	4 x 4	
Q.5.	a. What are the different methods used to make reaction stereosele suitable example.	ective? Discuss with 04	
	b. Enlist organic compounds which are optically active even thought chiral carbon. Why do they exhibit optical activity? How configurate defined?	-	
	c. Write a short note on racemic switches	04	
Q.6.	Give reaction with principle for following conversion a. Acetophenone to Pheny acetate b. Benzoic acid to diphenyl urea c. <i>p</i> -Chloro benzoic acid to <i>p</i> -chlorophenylacetic acid	4x 4	
	d. Benzil to benzilic acid		
Q.7.	a. What are conformational isomers? What are different conformational cyclohexane? Which one is more stable? Why?  b. Stereoisomerism plays very important role in new drug develop suitable examples  c. Cive stereoscelective synthesis of Nifedinine and Etherphyteles.	05 oment – Justify with 05	
	c. Give stereoselective synthesis of Nifedipine and Ethambutol	06	

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