Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY M. Pharm SEMESTER-II EXAMINATION – SUMMER-2017

Subject Code: 2920101 Date: 29/05/2017

Subject Name: Advanced Organic Chemistry-II

Time: 10:30 AM to 01:30 PM Total Marks: 80

Instructions:

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1.	Attempt	any five	questions.

- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a) (b)	Discuss in detail about Dimorth and Lossen-Schmidt rearrangement Write synthon approach for losartan and captopril			
Q.2	(a) (b)	Give principle and application of ultrasound reactions What is rearrangement reaction? Discuss reaction and mechanism involve in Bayer- Villiger rearrangement reaction with suitable example.			
Q.3	(a) (b)	What are the merits and demerits of solvent free reactions in synthesis? Give some examples of reactions carried out with solid support Discuss mechanism and applications of curtius and sharpless oxidation			
Q.4	(a) (b)	Write a note on resolution of racemic mixture and recemic switches Compare conventional and microwave assisted organic synthesis with examples			
Q.5	(a) (b)	Define optical isomerism and discuss various methods for the resolution of racemic mixture Discuss the stereochemistry of compounds with asymmetric plane			
Q. 6	(a) (b) (c)	Explain the terms: 1. Atom economy 2. Geometrical isomers 3. Racemic mixture Write reaction, mechanism and applications of benzillic acid rearrangement Write a note on swern oxidation			
Q.7	(a) (b)	How to design safer chemicals. Write benefits and industrial applications of green chemistry Discuss asymmetric synthesis of atenolol and ampicillin			
