Seat No.:	Enrolment No
-----------	--------------

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. - Semester-IV, Examination -SUMMER 2017

Subject code: 240003	Date: 04/05/2017
----------------------	------------------

 ${\bf Subject\ Name:\ Pharmaceutical\ Chemistry\ IV}$

(c) Write a note on Knoevenagel reaction.

Time: 02:30 PM to 05:30 PM Total Marks: 80

Instructions:

	 Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 	
Q.1	(a) Define following terms.	06
	i) Chiral centre, ii) Configuration, iii) Conformations, iv) Enantiomers	
	v) Diastereomers, vi) Specific rotation	
	(b) What is optical activity? How is it measured?	05
	(c) Explain Stereoselective and stereospecific reactions with examples.	05
Q.2	(a) Give the general mechanism of electrophilic aromatic substitution in benzene.	06
	(b) Write a note on friedel crafts reaction.	05

	(c) Explain Stereoselective and stereospecific reactions with examples.	05
Q.2	(a) Give the general mechanism of electrophilic aromatic substitution in benzene.	06
	(b) Write a note on friedel crafts reaction.	05
	(c) Haworth synthesis of naphthalene	05
Q.3	(a) Discuss the mechanism of Hoffmann's degradation of amide.	06
	(b) What is Gabriel pthalimide synthesis?	05
Q.4	(c) Write a note on Hinsberg method.	05
	(a) Discuss the mechanism of Reimer Tiemann Reaction and Kolbe Schmitt reaction.	06
	(b) How will you prepare Diazonium salt?	05
Q.5	(c) Discuss preparations of carboxylic acid derivatives.	05
	(a) Write a note on aldol condensation	06
	(b) Write various methods of preparations for aldehyde or ketone.	05

05

Q.6	(a) Give the mechanism of Cannizzaro reaction.	06
	(b) Write a note on pinacol pinacolone rearrangement.	05
	(c) Give the mechanism of witting reaction.	05
Q.7	(a) Explain orientation of nucleophillic aromatic substitution.	06
	(b) Write a short note on Microwave synthesis.	05
	(c) Give brief idea about Nano Chemistry	05
