Seat N	lo.: _	Enrolment No.	
M. Pharm SEMESTER - I • EXAMINATION - SUMMER • 20		GUJARAT TECHNOLOGICAL UNIVERSITY	
		M. Pharm. – SEMESTER – I • EXAMINATION – SUMMER • 2015	
Subject Code: 910101			
•		Name: Advanced Organic Chemistry - I	
		2:30 pm - 05:30 pm Total Marks: 80	
Instru			
		Attempt any five questions.  Make suitable assumptions wherever necessary.	
		Figures to the right indicate full marks.	
0.4			
Q.1	(a) (b)	Explain hydride transfer reactions with examples. Differentiate between $SN_1$ and $SN_2$ mechanism.	06 05
	(c)	Discuss walden inversion with examples.	05
Q.2		Explain markonikov's rule with suitable examples.	06
Q.2	(a) (b)	Describe reactivity in electrophilic substitution in aromatic systems.	05
	(c)	Write a note on inductive effect.	05
Q.3	(a)	Explain the terms:	06
	` /	i) Aromaticity ii) Polarity iii) Carbocation	
	<b>(b)</b>	Discuss $E_2$ reaction mechanism of elimination.	05
	(c)	What is a chemical bond? Discuss various chemical bonds.	05
Q.4	(a)	Discuss various photosensitizing agents.	08
	<b>(b)</b>	Discuss generation and reactions of phosphorus ylides.	08
Q.5	(a)	Discuss hoffman and saytzeff's rule for elimination with examples.	08
	<b>(b)</b>	Write a note on hyperconjugation and resonance.	08
Q. 6	(a)	Discuss cram's rule and neighbouring group effect in nucleophilic substitution	08
	<b>(1.)</b>	reaction.	0.0
	<b>(b)</b>	Discuss various types of hybridization with suitable examples.	08
<b>Q.7</b>	(a)	Discuss pinacol and beckmann rearrangement in detail with example.	08
	<b>(b)</b>	Discuss AAC <sub>2</sub> and BAC <sub>2</sub> mechanism for esters.	08

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