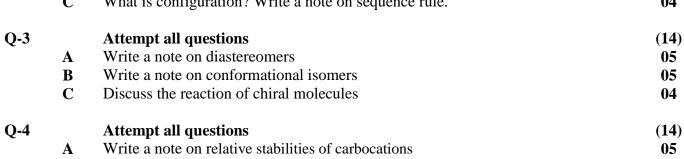
Enrollm	ent N	0:	Exam Seat No:	
Zmom			UNIVERSITY	
		Summer Exa	amination-2016	
Subject	Name	: Organic Chemistry-I		
Subject Code: 4SC05CHC2			Branch: B.Sc.(Chemistry)	
Semeste	r: 5	Date: 25/04/2016	Time: 02:30 To 05:30	Marks: 70
Instruction	ons:			
(1)	Use of	Programmable calculator & an	y other electronic instrument is j	prohibited.
(2)	Instruc	ctions written on main answer b	ook are strictly to be obeyed.	
		neat diagrams and figures (if ne	ecessary) at right places.	
(4)	Assun	ne suitable data if needed.		
Q-1		Attempt the following questi	ions:	(
	a)	Define carbocation		· ·
	b)	Give the structural formula of	2,5 di methyl hexane	
	c)	Define optical activity		
	d)	Define covalent bond		
	e)	Give the structural formula of	2,3 di methyl pentane	
	f)	Define carbanions		
	g)	What is Specific rotation?		
	h)	Define chirality		
	i)	Define free radicals		
	j)	Give the structural formula of	isopropyl alcohol	
	k)	What is hybridization?		
	l)	What is Isomer number?		
	m)	Define isomer		
	n)	Give the structural formula of	neo pentene	
Attempt	any f	our questions from Q-2 to Q-	8	
Q-2		Attempt all questions		(
-	\mathbf{A}	What is stereoisomerism? Dis-	cuss the isomer number.	`
	В	Discuss the optical activity of	plane-polarized light	
	C	What is configuration? Write		





Page 1 || 2

	В	What is polar group? Discuss the charge-Polar group	
	C	Write a short note on Conformations of ethane	04
Q-5		Attempt all questions	(14
	\mathbf{A}	Discuss the base-promoted halogenation of ketones	06
	В	Write a short note on Structure of ethane	04
	C	Write a short note on Grignard reagent	04
Q-6		Attempt all questions	(14
	\mathbf{A}	Write a note on Relative stabilities of carbocations	06
	В	Write a short note on witting reaction with mechanism	04
	C	Discuss the Halogenation and its Mechanism	04
Q-7		Attempt all questions	(14
	\mathbf{A}	Discuss the classes and physical properties of C-atoms and H-atoms	07
	В	Discuss the industrial sources of C-atoms and H-atoms	07
Q-8		Attempt all questions	(14
-	\mathbf{A}	Discuss the free rotation of the carbon-carbon single bond	07
	В	Discuss Vander Waals repulsion	07

