I	Enrollment No		No: Exam Seat No:				
			C.U.SHAH	UNIVERSIT	'Y		
				camination-2015	_		
S	Subject 1	Name: Pl	harmaceutical Chemistr	ry-IV (Organic Chemistry-I	I)		
	Subject Code: 4PS03PCH4 Branch: B.Ph						
S	Semeste	r:3	Date: 5/12/2015	Time: 2:30 To 5:30	Marks: 70		
1	(2) I (3) I	Use of Pro Instruction Draw near	ns written on main answe	any other electronic instrumer book are strictly to be obeyenecessary) at right places.	-		
Q-1		Attemp	t the following question	s:		(14)	
	a)		racemic mixture.			1	
	b) c)		e example of meso comp Chirality.	ound.		1	
	d)		e structure of Phenanthre	ene and Anthracene		1	
	e)		e example of Geometrica			1	
	f)		ne name of any two ortho			1	
	g)		Enantiomers.			1	
	h)	Write tv	wo examples of polynucle	ear aromatic compound.		1	
	i)		wo examples of electrophi			1	
	j)		ne example of atropisome			1	
	k)		ne name of any two meta			1	
	1)		_	bered heterocyclic compound		1	
	m) n)		ne name of any two deriva	atives of carboxylic acids with	i structure.	1 1	
Attem	ŕ		stions from Q-2 to Q-8			-	
Q-2		Attemp	t all questions			(14)	
•	A B	Define a What is	and explain Huckel rule.	Explain the aromatic property reaction? Write the sulphona chanism.	•	7	
0-3		Attomn	at all questions			(14)	

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Q-2	٨	Attempt all questions Define and explain Huckel rule. Explain the aromatic property of Pyrrole.	(14
	A		
	В	What is electrophilic substitution reaction? Write the sulphonation reaction of	7
		benzene along with its detail mechanism.	
Q-3		Attempt all questions	(14
	A	Write the Friedel-Crafts alkylation and Friedel-Crafts acylation reaction of	7
		benzene with its detail mechanism.	
	В	Write in detail about diazo coupling reaction.	7
	В	Witte in detail doods did20 coupling reaction.	,
Q-4		Attempt all questions	(14
	A	Describe about orientation in mono substituted benzene ring.	7
		Page 1 2	



	В	Write in detail preparation and reaction of Naphthalene and Anthracene.	7
Q-5		Attempt all questions	(14)
	\mathbf{A}	What is racemization? Explain the resolution methods of racemic mixture.	7
	В	Explain the stability of all conformational isomers of n-Butane with structure.	7
Q-6		Attempt all questions	(14)
	\mathbf{A}	Write various methods of preparation and chemical properties of Pyridine.	7
	В	Write the common methods of preparation of Aldehydes and ketones.	7
Q-7		Attempt all questions	(14)
•	\mathbf{A}	Write various preparation methods of Pyrrole and Furan.	7
	В	Write the principles of green chemistry.	7
Q-8		Attempt all questions	(14)
-	\mathbf{A}	Write various methods of preparation and chemical properties of Phenol.	7
	R	Write the methods of preparation of all the derivatives of carboxylic acids.	7

