C.U.SHAH UNIVERSITY Summer Examination-2017

Subject Name: Pharmaceutical Chemistry-III (Organic Chemistry-I) Subject Code: 4PS02PCH3 Branch: B.Pharm.

Semester: 2	Data	04/05/2017	Time: 02:00 To 05:00	Morket 70
Semester: 2	Date:	04/05/201/	11me: 02:00 10 05:00	Marks: 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

Q-1		Answer the following questions.					
	a)	• •					
	b)	Define Saytzeff rule.	1				
	c)	What is Antimarkovnikov rule?	1				
	d)	Why acetylene is acidic in nature?	1				
	e)	Write example of Nucleophilic reagent.	1				
	f)	Define the various types of Hybridization occurs in organic compounds?	1				
	g)	Define various types of Hydrogen bonding giving example.					
	h)	What is electronegativity? How it influence bond polarity?	1				
	i)	Define various types of bond fission.	1				
	j)	Write one example of Rearrangement reactions.	1				
	k)	Define polar covalent bond with example.	1				
	l)	Write one example of addition reaction in cycloalkane.	1				
	m)	Define hyperconjugation.	1				
	n)	Define electromeric effect.	1				
Attemp	ot any f	our questions from Q-2 to Q-8					
Q-2		Attempt all questions					
C	a)	Describe the four quantum numbers and write their significance.	7				
	b)	Write the various preparation methods and chemical reactions of alkynes.	7				
Q-3		Attempt all questions					
Ų۶	a)	Write the Structure and Stability of Carbonium ion and Carbanion ion.	7				
	b)	Describe the various conformational analysis of cyclohexane.	7				
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Q-4		Attempt all questions					
	a)	Write the various methods of preparation of cycloalkanes.	7				
	b)	Describe Bayer strain theory?	7				



Q-5		Attempt all questions				
	a)	Write various methods of preparation of Haloalkanes.	7			
	b)	What is nucleophilic substitution reaction? Differentiate between SN_1 and SN_2 reactions.	7			
Q-6		Attempt all questions				
	a)	Write various methods of preparation of Alcohols.	7			
	b)	Describe the various chemical properties of Alcohols.	7			
Q-7		Attempt all questions				
	a)	Write various methods of preparation of Ethers.	7			
	b)	Describe the various chemical properties of Ethers.	7			
Q-8		Attempt all questions				
	a)	Write various methods of preparation of Amines.	7			
	b)	Describe the various chemical properties of Amines.	7			

