## C.U.SHAH UNIVERSITY Winter Examination-2018

## Subject Name : Organic Chemistry-II

	Subject	Code : 4SC04OCH1	Branch : B.Sc. (Chemistry	<b>,Physics</b> )				
	Semester	<b>Date : 23/10/2018</b>	Time : 10:30 To 01:30	Marks: 70				
	Instructio	ons:						
	(1) U	(1) Use of Programmable calculator & any other electronic instrument is prohibited.						
	(2) I	nstructions written on main answer	book are strictly to be obeyed.					
		Draw neat diagrams and figures (if n	ecessary) at right places.					
	(4) A	Assume suitable data if needed.						
0.1		Attempt the following questions:		(14)				
Q-1		Attempt the following questions:		(14)				
	a)	Define: Isoprene rule		01				
	b)	Give one example of Curtius rearra	angement.	01				
	<b>c</b> )	Define: Free radical		01				
	<b>d</b> )	Define: Alkaloids		01				
	<b>e</b> )	Draw the chemical structures of ate	enolol.	01				
	<b>f</b> )	Define the term drugs.		01				
	<b>g</b> )	Draw the chemical structures of Co	oniine.	01				
	<b>h</b> )	Define: Nucleophile with example		01				
	i)	Define: Dyes		01				
	<b>j</b> )	Draw the structures of Citral.		01				
	<b>k</b> )	Opium contains% of mo						
	l)	Write the only reaction equation of	Kolbe synthesis.	01 01				
	m) n)	Draw the structures of Congo red. How many isoprene units are prese	ent in tri-terpene?	01				
	,	Tiow many isoprene ands are prese	ant in un terpene.	01				
Atte	empt any f	Cour questions from Q-2 to Q-8						
Q-2		Attempt all questions		(14)				
-		Discuss Beckmann rearrangement	with mechanism and its application	ns. 07				
		Write a note on Mannich reaction w						
Q-3	5	Attempt all questions		(14)				
-	<b>a</b> )	Explain Barbier-Wieland reaction	with its application.	07				
	b)	Write a note on Fries rearrangemen	nt.	07				
Q-4	Ļ	Attempt all questions		(14)				



Q-5		Attempt all questions	(14)
	a)	Explain the classification of dyes by structure and methods of application.	07
	b)	Write a note on Arndt-Eistert reaction.	07
Q-6		Attempt all questions	(14)
	a)	Give the synthesis and applications of Ibuprofen.	07
	b)	Write synthesis and applications of Indigo dye.	07
Q-7		Attempt all questions	(14)
	a)	Explain the classification of alkaloids on the basis of source and structure with appropriate examples.	07
	b)	Discuss the constitution of nicotine.	07
Q-8		Attempt all questions	(14)
	a)	Prove the constitution and write the synthesis of Citral.	07
	b)	Write a note on general procedure for determining structure of terpenoids.	07

