Enrollment No:	Exam Seat No:	

C.U.SHAH UNIVERSITY

Winter Examination-2022

Subject Name: Organic Chemistry-II

Subject Code: 4SC04OCH1 Branch: B.Sc. (Chemistry)

Semester: 4 Date: 20/09/2022 Time: 02:30 To 05:30 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		Attempt the following questions:	(14)
	a)	Write an Isoprene rule.	01
	b)	Give one example of Curtius rearrangement.	01
	c)	Define: Carbocation	01
	d)	Define: Terpenoids	01
	e)	Draw the chemical structures of Indigo.	01
	f)	Define the term "Dyes".	01
	g)	Draw the chemical structures of Coniine.	01
	h)	Define: Nucleophile	01
	i)	Define: Drug	01
	j)	Draw the structures of Citral.	01
	k)	Opium contains% of morphine and% of cinchona.	01
	l)	Write the only equation for reaction of Mannich synthesis.	01
	m)	Draw the structures of Congo red.	01
	n)	How many isoprene units are present in di-terpene?	01
Attemp	pt any f	Cour questions from Q-2 to Q-8	
Q-2		Attempt all questions	(14)
	a)	Explain Barbier-Wieland reaction with its application.	07
	b)	Write a brief note on Kolbe synthesis with mechanism and its applications.	07
Q-3		Attempt all questions	(14)
	a)	Discuss Beckmann rearrangement with mechanism and its applications.	07
	b)	Write a note on Fries rearrangement.	07
Q-4		Attempt all questions	(14)
•	a)	Give the synthesis and uses of Malachite green.	07
	b)	Give the synthesis and uses of Congo red.	07
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Q-5		Attempt all questions	(14)
	a)	Explain the classification of dyes on the basis of structure and methods of application.	07
	b)	Write a note on Hoffmann rearrangement.	07
Q-6		Attempt all questions	(14)
	a)	Give the synthesis and applications of Atenolol.	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)	Write a note on constitution of Citral.	07
	b)	Discuss about the general procedure for determining structure of terpenoids.	07

