

Enrollment No: \_\_\_\_\_

Exam Seat No: \_\_\_\_\_

# C.U.SHAH UNIVERSITY

## Winter Examination-2018

Subject Name : Organic Chemistry-II

Subject Code : 4SC040CH1

Branch : B.Sc. (Chemistry,Physics)

Semester : 4

Date : 23/10/2018

Time : 10:30 To 01:30

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.
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<b>Q-1</b>	<b>Attempt the following questions:</b>	<b>(14)</b>
	a) Define: Isoprene rule	01
	b) Give one example of Curtius rearrangement.	01
	c) Define: Free radical	01
	d) Define: Alkaloids	01
	e) Draw the chemical structures of atenolol.	01
	f) Define the term drugs.	01
	g) Draw the chemical structures of Coniine.	01
	h) Define: Nucleophile with example	01
	i) Define: Dyes	01
	j) Draw the structures of Citral.	01
	k) Opium contains _____% of morphine and _____% of cinchona.	01
	l) Write the only reaction equation of Kolbe synthesis.	01
	m) Draw the structures of Congo red.	01
	n) How many isoprene units are present in tri-terpene?	01

**Attempt any four questions from Q-2 to Q-8**

<b>Q-2</b>	<b>Attempt all questions</b>	<b>(14)</b>
	a) Discuss Beckmann rearrangement with mechanism and its applications.	07
	b) Write a note on Mannich reaction with mechanism and its applications.	07
<b>Q-3</b>	<b>Attempt all questions</b>	<b>(14)</b>
	a) Explain Barbier-Wieland reaction with its application.	07
	b) Write a note on Fries rearrangement.	07
<b>Q-4</b>	<b>Attempt all questions</b>	<b>(14)</b>
	a) Give the synthesis and uses of Alizarin.	07
	b) Give the synthesis and uses of Methyl Orange.	07



