

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

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

# C.U.SHAH UNIVERSITY

## Winter Examination-2018

Subject Name : Organic Chemistry-II

Subject Code : 4SC06CHC2

Branch : B.Sc. (Chemistry)

Semester : 6

Date : 24/10/2018

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.
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<b>Q-1</b>	<b>Attempt the following questions:</b>	<b>(14)</b>
	a) Define: Nucleophile with example	01
	b) Define: Aromaticity	01
	c) Define: Free radical	01
	d) Draw the Kekule structure of benzene.	01
	e) State the only one difference between aromatic and aliphatic compounds.	01
	f) Define: Oxidation process	01
	g) What is rate of reaction?	01
	h) Write the Huckel's rules of aromaticity.	01
	i) Define: Energy of activation	01
	j) Draw the structures of methane and <i>p</i> -Dinitrobenzene.	01
	k) Define: Condensation reaction	01
	l) Write Friedel-Crafts reaction for acyl group.	01
	m) Draw all isomeric structures of dichlorobenzene.	01
	n) Write only reaction of aldol condensation.	01

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

<b>Q-2</b>	<b>Attempt all questions</b>	<b>(14)</b>
	a) Explain briefly the structural concept of Kekule's benzene with discussion of orbital arrangement.	07
	b) Write a brief note on Aldol condensation.	07
<b>Q-3</b>	<b>Attempt all questions</b>	<b>(14)</b>
	a) Explain claisen condensation reaction with its application.	07
	b) Discuss naphthalene and anthracene structures as polynuclear aromatic hydrocarbon by using Huckel rule.	07
<b>Q-4</b>	<b>Attempt all questions</b>	<b>(14)</b>
	a) Describe the various addition processes of cyanide to ketones and aldehydes.	07
	b) Explain the preparation of ketone by Friedel Crafts Acylation.	07



