

# C.U.SHAH UNIVERSITY

## Summer Examination-2017

Subject Name: Chemistry-X

Subject Code: 4SC04CHE2

Branch: B.Sc.(Chemistry)

Semester: 4

Date: 20-04-2017

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) What is fertilizer?	1
	b) What is feldspar?	1
	c) Complete the reaction Benzene + Cl <sub>2</sub> ----- A+ B	1
	d) What is pesticide?	1
	e) Define adsorbent	1
	f) Define absorption	1
	g) Write the chemical formula of urea	1
	h) Define solute	1
	i) Define insecticide	1
	j) Write the full form of LPG	1
	k) Draw the structure of dicloro ethane	1
	l) Define ceramic	1
	m) Complete the reaction NaCl + H <sub>2</sub> O----- A+ B	1
	n) Define glass	1

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

<b>Q-2</b>	<b>Attempt all questions</b>	<b>(14)</b>
	A. Discuss the manufacturing process of ammonia fertilizer	<b>07</b>
	B. Discuss the role of biofertilizers in organic farming	<b>07</b>
<b>Q-3</b>	<b>Attempt all questions</b>	<b>(14)</b>
	A. Write a note on heating values	<b>05</b>
	B. Discuss the cracking and knocking process	<b>05</b>
	C. Write the synthesis and properties of gamma-xane	<b>04</b>
<b>Q-4</b>	<b>Attempt all questions</b>	<b>(14)</b>
	A. Write a note on octane number	<b>05</b>
	B. Discuss the role and synthesis of DDT in fertilizer industries	<b>05</b>



	C. Write the synthesis and properties of parathion	04
<b>Q-5</b>	<b>Attempt all questions</b>	<b>(14)</b>
	A. Discuss the industrial manufacture of Cement	05
	B. Write the applications of pesticides	05
	C. Write the synthesis and properties of paraquat	04
<b>Q-6</b>	<b>Attempt all questions</b>	<b>(14)</b>
	A. Discuss the industrial manufacture of Ceramic	05
	B. What are anti-knock compounds? Discuss the liquefied natural gas	05
	C. Write the synthesis and properties of Aldrin	04
<b>Q-7</b>	<b>Attempt all questions</b>	<b>(14)</b>
	A. Discuss the manufacture of glasses and colored glass	07
	B. Write the applications of chromatography	07
<b>Q-8</b>	<b>Attempt all questions</b>	<b>(14)</b>
	A. Write Principle of adsorption chromatography. Discuss the classification of adsorbents	07
	B. Write a note on	07
	1. Thin layer chromatography	
	2. Column chromatography	

