Enrollment No: _____ Exam Seat No:_____

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.

Q-1		**Attempt the following questions:**	**(14)**
	a)	What is fertilizer?	1
	b)	What is feldspar?	1
	c)	Complete the reaction Benzene + Cl_2---------- 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_2O---------- A+ B	1
	n)	Define glass	1

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

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

	C.	Write the synthesis and properties of parathion	**04**
Q-5		**Attempt all questions**	**(14)**
	A.	Discuss the industrial manufacture of Cement	**05**
	B.	Write the applications of pesticides	**05**
	C.	Write the synthesis and properties of paraquat	**04**
Q-6		**Attempt all questions**	**(14)**
	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**
Q-7		**Attempt all questions**	**(14)**
	A.	Discuss the manufacture of glasses and colored glass	**07**
	B.	Write the applications of chromatography	**07**
Q-8		**Attempt all questions**	**(14)**
	A.	Write Principle of adsorption chromatography. Discuss the classification of adsorbents	**07**
	B.	Write a note on 1. Thin layer chromatography 2. Column chromatography	**07**