Enrollment No:	Exam Seat No:
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## C.U.SHAH UNIVERSITY

## **Summer Examination-2016**

**Subject Name: Chemistry-X** 

Subject Code: 4SC04CHE2 Branch: B.Sc.(Chemistry)

Semester: 4 Date: 16/05/2016 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)	Define plant nutrients	1
	<b>b</b> )	Complete the reactions. $2NH4++4O2 \rightarrow 2NO3-++2H2O$	1
	c)	Complete the reactions. (NH4)2SO4 + 2H2O $\rightarrow \leftarrow$ +	1
	<b>d</b> )	Define industrial chemistry	1
	<b>e</b> )	Write the full form of LPG	1
	<b>f</b> )	Write the full form of LNG	1
	g)	Define Rf value	1
	<b>h</b> )	Define cement	1
	i)	Define ceramic	1
	<b>j</b> )	Define glass	1
	<b>k</b> )	Define chromatography	1
	1)	Write the formula of urea	1
	m)	Write the formula of superphosphate	1
	n)	Define cracking	1
Attemp	t any f	our questions from Q-2 to Q-8	
Q-2		Attempt all questions	(14)
	Α.	Write the complete classification of fuel in detail	05
	В.	Write a note on octane number	05
	C.	Discuss the Origin and composition of petroleum	04
Q-3		Attempt all questions	(14)
•	A.	Write a note on fertilizers.	05
	В.	Define chromatogram and discuss the factors affecting R <sub>f</sub> value.	05
	C.	Write a note on petrochemicals.	04



Q-4		Attempt all questions	(14)
	<b>A.</b>	Write a note on DDT and Paraquate.	05
	В.	Write short note on thin layer chromatography: choice of adsorbent and solvents.	05
	C.	Write a note on Micronutrients.	04
Q-5		Attempt all questions	(14)
	A.	Write a note on bio fertilizer in detail.	05
	В.	Write a note on heating value.	05
	C.	Write a note on paper chromatography.	04
Q-6		Attempt all questions	(14)
	A.	Write short note on principle of adsorption and partition chromatography.	05
	В.	Write short note on Column chromatography and its adsorbents.	05
	C.	Write a note on paper chromatography.	04
Q-7		Attempt all questions	(14)
	A.	What is pesticides? Discuss the applications and synthesis of Parathion and	07
		Malathion pesticides in detail.	
	В.	Discuss the manufacturing process of Ammonia.	07
Q-8		Attempt all questions	(14)
~	A.	Discuss the complete industrial manufacture process for cement.	07
	В.	Discuss the complete industrial manufacture process for ceramic and glass.	07

