Enrollment No: Ex	xam Seat No:
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C.U.SHAH UNIVERSITY

Summer Examination-2016

Subject Name: Industrial Chemistry-I

Subject Code: 4SC05CHE1 Branch: B.Sc.(Chemistry)

Semester: 5 Date: 02/05/2016 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		Define the following terms:	(14)
	a)	Nitration	1
	b)	Mineral oil	1
	c)	Halogenation	1
	d)	Iodine oil	1
	e)	Amination	1
	f)	Animal oil	1
	g)	Calcinations	1
	h)	Condensation	1
	i)	Silicon oil	1
	j)	Esterification	1
	k)	Nitro musk	1
	l)	Hydrolysis	1
	m)	Polymerization	1
	n)	Unit operation	1
Attemp	pt any f	Cour questions from Q-2 to Q-8	
Q-2		Attempt all questions	(14)
	1	Write the differences between unit process and unit operation	05
	2	Discuss the basic principles of unit process	05
	3	Write a short note on "Petrochemicals"	04
Q-3		Attempt all questions	(14)
	1	Write the industrial organic synthesis of methanol.	05
	2	Draw the industrial organic synthesis for phenol and glycol.	05
	3	What are industrial gases? Discuss the hydrogen cell.	04



Q-4		Attempt all questions	(14)
	1	Describe the industrial organic synthesis of ethanol.	05
	2	Draw the industrial organic synthesis of ethyl acetate and acetone.	05
	3	Discuss the manufacturing process and uses of Ammonia.	04
Q-5		Attempt all questions	(14)
	1	Write a note on filtration.	05
	2	Explain the industrial production of hydrogen with proper diagram.	05
	3	Discuss the manufacturing process and uses of carbon dioxide.	04
Q-6		Attempt all questions	(14)
	1	Write a note on extraction.	05
	2	Discuss the industrial uses of hydrogen.	05
	3	Write the industrial synthesis of acetylene and nitric acid.	04
Q-7		Attempt all questions	(14)
_	1	Define distillation? Discuss different assemblies of distillation	07
	2	Discuss the physical and chemical properties of oil and fats	07
Q-8		Attempt all questions	(14)
•	1	Define crystallization? Discuss different types of crystallization	07
	2	What are synthetic perfumes? Write the differences between flower and artificial perfumes	07

