Q-

C.U.SHAH UNIVERSITY Winter Examination-2021

Subject Name: Industrial Chemistry-II

	Subject Code: 4SC05IDC1		Branch: B.Sc. (Chemistry)		
	Semester	: 5 Date: 15/12/2021	Time: 11:00 To 02:00	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. 				
-1		Attempt the following questions:			(14)
	a)	Define: Unit Process			01
	b)	Define: Esterification			01
	c)	What is the chemical formula of Lignoc	eric acid?		01
	d)	Draw the chemical structure of Ethylvar	illin.		01
	e)	Write any two nitrating agents.			01
	f)	Write the uses of extraction unit operation	on.		01
	g)	What is the application of Coumarin?			01
	h)	Which catalyst is used for the synthesis	of methanol from synthesis g	as?	01
	i)	Write about hydrogen cell.			02
	j)	Write Industrial uses of hydrogen.			02
	k)	Write an industrial organic synthesis of	Acetone.		02

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

Q-2		Attempt all questions	(14)
	a.	What is Distillation? Explain it by any three methods with suitable examples.	07
	b.	Write a short note on Industrial organic synthesis of Methanol.	07

Q-3		Attempt all questions	(14)
	a.	What is Polymerization? Explain it with suitable examples.	07
	b.	Explain: How to prepare industrial organic synthesis of Ethylene glycol.	07



Q-4		Attempt all questions	
	a.	Write a note on amination unit process.	07
	b.	Write a note on Nitration unit process.	07
Q-5		Attempt all questions	(14)
	a.	Write a note on (a) Saponification value (b) Acid value (c) Iodine value.	07
	b.	Discuss on manufacturing of Soybean oil by solvent extraction.	07
Q-6		, Attempt all questions	(14)
	a.	Discuss about Industrial production of Hydrogen.	07
	b.	Write the manufacture of Nitrogen and Oxygen by any one method.	07
Q-7		Attempt all questions	(14)
	a.	Explain: The manufacturing process of methyl anthranilate, methyl salicylate and ester of benzyl alcohol.	07
	b.	Manufacturing process and uses of carbon dioxide.	07
Q-8		Attempt all questions	(14)
	a.	Explain: Industrial organic synthesis of Phenol by any two different processes.	07
	b.	Discuss the manufacturing process of Acetic acid.	07

