

C.U.SHAH UNIVERSITY

Summer Examination-2019

Subject Name: Industrial Chemistry-II**Subject Code: 4SC05IDC1****Branch: B.Sc. (Chemistry)****Semester: 5****Date: 26/03/2019****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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Q-1	Attempt the following questions:	(14)
	a) Define: Petrochemical	01
	b) Define: fat	01
	c) Define: Unit Process	01
	d) Define: alkylation	01
	e) Define: Extraction	01
	f) Define: Polymerization	01
	g) Define: hydrolysis	01
	h) Draw the chemical structure of Citronellol.	01
	i) Write an industrial organic synthesis of Ethyl acetate.	02
	j) What are the uses of oxygen.	02
	k) Write Industrial uses of hydrogen.	02

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

Q-2	Attempt all questions	(14)
	a. What is Crystallization? Explain it 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 an esterification? Explain it with suitable examples.	07
	b. Explain: How to prepare industrial organic synthesis of Ethanol.	07
Q-4	Attempt all questions	(14)
	a. Write a note on Halogenation unit process.	07
	b. Write a note on Nitration unit process.	07
Q-5	Attempt all questions	(14)



a.	Write a note on Ester oil and Iodine oil.	07
b.	Discuss on manufacturing of Soybean oil by solvent extraction.	07
Q-6	Attempt all questions	(14)
a.	Write a note on sources of hydrogen.	07
b.	Write a manufacture of Nitrogen and Carbon dioxide by any one method.	07
Q-7	Attempt all questions	(14)
a.	Write a note on Flower, fruits and artificial perfumes.	07
b.	Manufacturing process and uses of Nitric acid.	07
Q-8	Attempt all questions	(14)
a.	Write a note on Industrial synthesis of Ethylene glycol and Glycerine.	07
b.	Discuss the manufacturing process of Acetic acid.	07

