

Enrollment No: _____

Exam Seat No: _____

C.U.SHAH UNIVERSITY

Summer Examination-2020

Subject Name: Industrial Chemistry-II**Subject Code: 4SC05IDC1****Branch: B.Sc. (Chemistry)****Semester: 5****Date: 06/03/2020****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: Unit Process	01
	b) Define: Fat with one example	01
	c) Define: Distillation	01
	d) Define: Polymerization	01
	e) Write the preparation method of Formaldehyde.	01
	f) Write one example of amination reaction used in the chemical industry.	01
	g) Write one example of synthetic perfume.	01
	h) Draw the chemical structure of Citral	01
	i) Draw the chemical structure of ethylene glycol and ethyl acetate.	02
	j) Write the uses of acetylene.	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. Write a note on extraction unit operation.	07
	b. Explain Industrial organic synthesis of ethanol by any one method.	07
Q-3	Attempt all questions	(14)
	a. Write sulphonation unit process with two examples.	07
	b. Discuss the properties and difference of oil and fats.	07
Q-4	Attempt all questions	(14)
	a. Explain calcinations unit process.	07
	b. Write the hydrolysis unit process with any one suitable illustration.	07
Q-5	Attempt all questions	(14)
	a. Discuss the production of natural perfumes.	07
	b. Explain saponification value, acid value and ester value.	07



Q-6	Attempt all questions	(14)
a.	Discuss any one method for industrial production of hydrogen.	06
b.	Explain industrial manufacturing process of Glycerine.	04
c.	Write a note on civetone.	04
Q-7	Attempt all questions	(14)
a.	Write a note on Nitro masks.	06
b.	Write commercial production of carbon dioxide (CO ₂).	04
c.	Write the uses of nitrogen and ammonia.	04
Q-8	Attempt all questions	(14)
a.	Write a manufacturing of soybean oil by solvent extraction.	06
b.	Discuss the manufacturing process of Acetone.	04
c.	Explain the Hydrogen cell.	04

