En	rollmen	t No:	No: Exam Seat No:						
		C.U.SH	AH UNIVERS	SITY					
	Winter Examination-2018								
Su	bject Na	me: Industrial Chemistr	y-II						
Su	bject Co	de: 4SC05IDC1	Branch: B.Sc. (Chemistry)						
Sei	mester: 5	5 Date: 07/12/2018	Time: 10:30 To 01:30	Marks: 70					
Ins	(2) Ins (3) Dra	e of Programmable calcula tructions written on main a	ator & any other electronic instanswer book are strictly to be extracted.	obeyed.					
Q-1	Attempt the following questions:								
	b) [ c) [ d) [	Define: Esterification Define: Oil Define: Unit operation Define: Condensation Define: Crystallization			01 01 01 01 01				
		Vrite any one example of complete the following chemical complete chemical chemical complete chemical complete chemical complete chemical ch	oxidation used in the organic c mical reaction	hemical industry.	01 01				
	C	$CH_2 = CH_2 + 1/2 O_2$ (air)	+ H2O	·					
	<ul><li>i) V</li><li>j) V</li></ul>	Oraw the chemical structure Vrite an industrial organic Vhat are the uses of carbon Vrite about hydrogen cell.	synthesis of formaldehyde.		01 02 02 02				
Attemp	t any fou	r questions from Q-2 to	Q-8						
Q-2 a b	ı. I		s different types of distillation rial organic synthesis of ethyl a		(14) 07 07				

## Q-2

c.

	~•	process of the contract of the	0.
Q-3		Attempt all questions	(14)
	a.	What is Nitration? Discuss about nitration unit process with min. two examples.	08
	b.	Mol. Wt. of unsaturated fat is 956 gm/moles and required moles of iodine	03
		formation are 4. Calculate the iodine value for the same.	
		N. 1	0.0



Mol wt. of Triglyceride derivative is 1451 gm/moles and 3 moles of base (KOH)

03

required for saponification. Calculate the saponification value for the same.

Q-4		Attempt all questions	(14)
	a.	Define alkylation and Discuss about it with at least one example.	05
	b.	Write a note on sources of hydrogen.	05
	c.	Write a note on Terpineols	04
Q-5		Attempt all questions	(14)
	a.	Write a note on Nitro Musks.	07
	b.	Discuss properties of oil and fats and difference between them.	07
Q-6		Attempt all questions	(14)
	a.	Explain any two manufacturing methods of hydrogen.	07
	b.	Write a manufacture of oxygen and nitrogen by any one method.	07
Q-7		Attempt all questions	(14)
	a.	Write a note on acetylene gas.	07
	b.	Explain industrial manufacturing process of organic synthesis of methanol.	07
Q-8		Attempt all questions	(14)
-	a.	Write a note on Industrial synthesis of Acetic acid.	07
	b.	What is Petrochemical? Discuss the manufacturing process of Acetone and	07

