Seat	No.:	Enrolment No.	
		GUJARAT TECHNOLOGICAL UNIVERSIT	$\mathbf{Y}$
		BE - SEMESTER-III(New) • EXAMINATION - WINTER 20	
Suh	iect	· · · · · · · · · · · · · · · · · · ·	e:06/01/2017
	-		
•	•	Name: Chemical Engineering Processes	136 1 50
			al Marks: 70
Instr	uction		
	1.	± ±	
	<b>2.</b> 3.	Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
	٥.	rightes to the right indicate run marks.	MARK
O 1			
Q.1	1	Short Questions	14
	1	Name the catalyst used for manufacture of H <sub>2</sub> SO <sub>4</sub> by DCDA proces	SS.
	2	What are the different routes of production of ethanol?	
	3	List the sources of SO <sub>2</sub> for manufacture of H <sub>2</sub> SO <sub>4</sub> .	
	4	Write the main reaction of urea synthesis.	
	5	What is the side reaction which leads to biuret formation?	
	6	Which are the three main components of a fertilizer.	
	7	Write the chemical formula of Aniline.	
	8	List the major ways of producing Vinyl Chloride.	
	9	List some examples of unit operations.	
	10	Write the raw materials required for manufacture of Methanol.	
	11	List the major routes for phenol production.	
	12	J 1	
	13	,	
	14	Name end products from hydrogenation of vegetable oil.	
Q.2	(a)	List the different unit processes.	03
	<b>(b)</b>	Write short note on sulphur production.	04
	(c)	flowsheet.	p of a <b>07</b>
		OR	
	(c)	With the help of a flowsheet, explain the manufacturing proc Acetic acid by oxidation process.	eess of 07
Q.3	(a)	What are the various uses of methanol?	03
	<b>(b)</b>	What are the problems associated with urea manufacture?	04
	(c)	Explain the manufacturing process of Ethanol from ethyle sulphonation with a neat flow sheet.	ne by <b>07</b>
		OR	
Q.3	(a)	<u> </u>	03
	<b>(b)</b>	• •	04
	(c)	Describe the manufacturing process of Urea with the help of a flow	sheet. <b>07</b>
Q.4	(a)	What are the various ways of bagasse disposal?	03
	<b>(b)</b>	· · · · · · · · · · · · · · · · · · ·	
	<b>(c)</b>	Explain the manufacturing process of Furfural by hydrolysis proces	ss. <b>07</b>

nificance in <b>0</b> 4
sheet. 07
03
04
de. Discuss <b>07</b>
03
04
Discuss the 07

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