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		.: Enrolment No GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-III (OLD) - EXAMINATION – SUMMER 2018 4 C - 1 - 120505	_
	•	t Code:130505 Date: 21/05/2018	
	-	t Name: Chemical Process Industries-1	
	Time:1		
	Marks	: 70	
•	Instructi		
		Attempt all questions.	
		Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
Q.1	(a)	Describe mining of Sulfur by Frasch process with neat sketch.	07
C	(b)	Discuss in brief about Settling & Hardening of cement.	07
Q.2	<b>(a)</b>	Write a short note on IMI process for production of Phosphoric acid	07
	<b>(b)</b>	Starting with neat flow diagram and reactions, discuss the manufacture of	07
		Ammonia.	
		OR	
	<b>(b)</b>	Discuss in brief: Different applications of glass.	07
Q.3	<b>(a)</b>	Explain waste water treatment by activated sludge process. Discuss treated	07
		effluent disposal management.	
	<b>(b)</b>	Write a short note on: Ceramic industries.	07
		OR	
Q.3		What is Unit operation and Unit process? Explain in detail	07
<b>•</b>	<b>(b)</b>	Explain manufacturing of Caustic and Chlorine with flow diagram.	07
Q.4		Explain ion-exchange process with neat diagram for water softening.	07
	<b>(b)</b>	Write short notes on NPK fertilizers.	07
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Q.4		List out the types of paper products. Explain in detail manufacturing of paper.	07
0.5	(b)	Discuss Linde's process for manufacture of $O_2$ and $N_2$ .	07
Q.5		Explain in detail demineralization and desalting of water with sketch.	07
	<b>(b)</b>	Discuss in brief on Propellants.	07
05	(a)	OR Describe manufacturing of pure COs with next flow diagram. Enlist different	07
Q.5	<b>(a)</b>	Describe manufacturing of pure $CO_2$ with neat flow diagram. Enlist different uses of dry $CO_2$ .	07
	<b>(b</b> )	Explain manufacturing of pulp by using Kraft process with neat sketch.	07
	(0)	Explain manufacturing of pulp by using Kraft process with heat sketch.	07

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