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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	(a)	Write a short note on IMI process for production of Phosphoric acid	07
	(b)	Starting with neat flow diagram and reactions, discuss the manufacture of	07
		Ammonia.	
		OR	
	(b)	Discuss in brief: Different applications of glass.	07
Q.3	(a)	Explain waste water treatment by activated sludge process. Discuss treated	07
		effluent disposal management.	
	(b)	Write a short note on: Ceramic industries.	07
		OR	
Q.3		What is Unit operation and Unit process? Explain in detail	07
•	(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)	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)	Discuss in brief on Propellants.	07
05	(a)	OR Describe manufacturing of pure COs with next flow diagram. Enlist different	07
Q.5	(a)	Describe manufacturing of pure CO_2 with neat flow diagram. Enlist different uses of dry CO_2 .	07
	(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
