Seat No.:	Enrolment No
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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER- IV • EXAMINATION - SUMMER 2015

	U	Code: 141303 Date: 03/06/2015 Name: Chemical Engineering Processes	
Ti	me: 10 truction 1. 2.	0.30am-01.00pm Total Marks: 70	
Q.1	(a) (b)	Explain the mfg. process of sulfuric acid with neat & clean diagram. Explain the working of ESP & Cyclone separator with neat & clean diagram.	
Q.2	(a)	Write at least seven point about the importance of flow diagram study in environmental engineering.	07
	(b)	Explain the mfg. process of Methanol. OR	07
	(b)	Draw the flow diagram for the manufacturing process of HCN with its uses.	07
Q.3	(a) (b)	Explain with neat sketch the mfg. process of Ethanol. What do you understand by heat exchanger explain the principle & working of shall & tube heat exchanger.	07 07
		OR	
Q.3	(a) (b)	Write the manufacturing process of Urea in details. Differentiate the unit operation & unit process.	07 07
Q.4	(a) (b)	Write a short note on health & safety aspects related to vinyl chloride. Explain the manufacturing process of vinyl acetate with diagram. OR	07 07
Q.4	(a) (b)	Describe the manufacturing process of nitric acid. List out the major engineering problems related to acetic acid.	07 07
Q.5	(a) (b)	Explain the mfg. process of cotton seed oil. Differentiate crushers & grinder with the working of one of the crusher & grinder in detail.	07 07
Q.5	(a) (b)	OR Explain the mfg. process of aniline with neat & clean diagram. Explain mfg. process of cellulose acetate.	07 07