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GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER- IV (Old) EXAMINATION – WINTER 2019

BE - SEMESTER-IV (Old) EX.

Subject Code: 141303 Subject Name: Chemical Engineering Processes

Time: 10:30 AM TO 01:00 PM

Date: 17/12/2019

Total Marks: 70

	1. 2. 3.	I J	
Q.1	(a) (b)	Discuss the hydrogenation of cotton seed oil using a neat process flow diagram Explain the sources of pollution, health & safety in the production of hydrogen cyanide	07 07
Q.2	(a)	Draw only a neat process flow diagram of manufacturing of Urea. Enlist nonfertiliser uses of Urea.	07
	(b)	Discuss the sources of pollution, health & safety in the production of nitric acid OR	07
	(b)	-	07
Q.3	(a) (b)	Draw only a neat flow diagram of Furfural production Write down all the major equations involved in the production of nitric acid OR	07 07
Q.3	(a)	Write down all the major equations involved in the production of Phenol. Give details for the routes through which phenol can be produced.	07
	(b)	Discuss any two routes through which ethanol can be produced	07
Q.4	(a)	Discuss the methods for the production of vinyl chloride monomer. And explain any one in detail.	07
	(b)	Explain with the flow diagram production of acetic acid OR	07
Q.4	(a)	Enlist the major engineering problems involved in the production of methanol. And explain any two in detail.	07
	(b)	Discuss in brief various process alternatives for the manufacturing of Urea	07
Q.5	(a)	Draw only a neat flow diagram of monochloroacetic acid	07
C	(b)	Discuss in details used of the following: Methanol ad Phenol OR	07
Q.5	(a)	Explain the process flow diagram of Vinyl acetate	07
-	(b)	Draw only a neat process flow diagram of Ethylene chloro hydrin	07
