Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

		BE – SEMESTER V • EXAMINATION – WINTER - 2012	
Subject	t cod	e: 151301 Date: 11-01-2013	3
Γime: (	02:30	me: Elements of Chemical Engineering ) pm to 05:00 pm  Total Marks: 70	
2	. Att . Ma	s: tempt all questions. ake suitable assumptions wherever necessary. gures to the right indicate full marks.	
Q.1	(a) (b)	Give the classification of types of reactions.  Explain the various variables affecting the rate of reactions.	07 07
Q.2	(a) (b)	·	07 07
	<b>(b)</b>	<del>-</del>	07
Q.3	(a) (b)	*1	07 07
Q.3	(a) (b)	Differentiate between plug flow reactor and mix flow reactor.	
Q.4	(a) (b)	Make a material balance for batch reactor. Discuss temperature dependency and Arhenius Law.  OR	07 07
Q.4 Q.4	(a) (b)		07 07
Q.5	(a) (b)	Write a short not on Fluidized bed reactor. Discuss single and multiple reactions in detail.  OR	07 07
Q.5	(a) (b)		07 07

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