Seat No.: Enrolment No
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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE - SEMESTER- VI• EXAMINATION-SUMMER 2015
Subject code: 161702 Date: 04/05/2015

Time:	10:	Name: Process Control 30 am to 01:00 pm Total Mark	:s: 70
Instr	1. 2.	ions: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	Give the outline of fundamental modeling procedure	08
	(b)	How to determine a plant operating conditions?	06
Q.2	(a) (b)		08 06
		OR	
	<b>(b)</b>		06
Q.3	(a)	Explain Integral mode (I) of control in details. How it nullifies offset error?	08
	<b>(b)</b>	Draw and explain block diagram of two input two output system.  OR	06
Q.3	(a) (b)		08 06
Q.4	(a)	Write short note on ration station and give its applications.	08
	(b)	• • • • • • • • • • • • • • • • • • • •	06
<b>Q.4</b>	(a)		08
	<b>(b)</b>	Give different integral error measures.	06
Q.5	(a)	Explain the bode method of stability analysis of control system.	08
	<b>(b)</b>	Write short note on floating control mode in details.  OR	06
Q.5	(a)	Explain method of determining tuning constant that give good control performance.	08
	<b>(b)</b>	•	06

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