Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

B. E. - SEMESTER - VI • EXAMINATION - WINTER 2012

Date: 04/01/2013

Subject code: 162303

Subject Name: Plastic Process Instrumentation and Process Control			
		2.30 pm - 05.00 pm Total Marks: 70	
Insti	1. 2.	ions: Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	What are the different methods of Temperature measurement? Explain about	07
	(b)	Resistance Thermometer.	07
Q.2	(a)	What are the different methods of measure extrude thickness? Explain about any one in detail.	07
	<b>(b)</b>	·	07
	<b>(b)</b>		07
Q.3	(a)	What are the different parts of Injection molding machine? Explain its functions.	07
	<b>(b)</b>		07
Q.3	(a)	Describe Temperature control of barrel and melt of an Injection Molding Machinery.	07
	<b>(b)</b>	·	07
Q.4	(a)	What are the requirements of the Instrumentation in Extrusion Molding Machine?	07
	<b>(b)</b>	Describe the Piezo resistive pressure transducers used in extruder with the help of a neat sketch.	07
Q.4	(a)	OR Discuss about Infrared Melt Temperature Measurement Method of extrude	07
۷.٦	( <b>u</b> )	barrel.	07
	<b>(b)</b>	Explain about the true total extrusion process control in detail.	07
Q.5	(a)	What are the features of Blow Molding machine? How the machine is controlled?	07
	<b>(b)</b>		07
		OR	
Q.5	(a) (b)	,	07 07