Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V • EXAMINATION - WINTER • 2014

	•	Code: 152304 Date: 08-12-2014	
Tiı	-	Name: Plastic Processing & Machinery 0.30 am - 01.00 pm Total Marks: 70 ns:	
	1. 2. 3.	Make suitable assumptions wherever necessary.	
Q.1	(a)	What is Plastic Processing? Provide various processing method for Thermoplastic & Thermoset.	07
	(b)	What is calendering? Why it is used? Explain calendering line with neat sketch.	07
Q.2	(a)	What is Injection Molding? Explain Process steps with line diagram along with advantages & disadvantages	07
	(b)	What is Reacting Injection Molding? Describe the process steps in detail. OR	07
	(b)	Explain advantages & disadvantages of calendering process.	07
Q.3	(a) (b)	Explain Plunger Transfer Molding with neat sketch. Which are the factors affecting on Compression Molding Process? OR	07 07
Q.3	(a) (b)	Explain advantages & disadvantages of Transfer Molding. Give trouble shooting for Transfer Molding.	07 07
Q.4	(a)	What is compression molding? Explain the process with neat sketch along with advantages & disadvantages.	07
	(b)	Compare Transfer Molding & Compression Molding Process. OR	07
Q.4	(a)	Which are the materials use for thermoforming? Explain any two process of thermoforming.	07
	(b)	What is stretch Blow Molding Process? Why it is used? Explain with advantages & disadvantages.	07
Q.5	(a) (b)	Explain Drapback Thermoforming process in detail. Comparison of Injection blow molding & Extrusion Blow Molding. OR	07 07
Q.5	(a) (b)	Explain Twin Sheet Thermoforming Process in detial. Explain pressure forming process with neat sketch. List out difference between Pressure & Vacuum Forming.	07 07
