Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V (OLD) - EXAMINATION – SUMMER 2017 Subject Code: 152304 Date: 15/05/2017 Subject Name: Plastic Processing & Machinery (Institute Elective-II) Time: 02:30 PM to 05:00 PM Instructions:			
	1. 2. 3.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	What is thermoforming Process? Explain plug assist forming process with diagram.	07
	(b)	Classify blow molding process and explain advantages and disadvantages of blow molding process.	07
Q.2	(a) (b)	Give comparisons between Compression Molding with Transfer Molding process. Write a note on: Parison programming.	07 07
		OR	
	(b)	Describe RIM process with steps in detail with neat figure and compare with Injection molding process.	07
Q.3	(a)	Explain Plunger type Transfer Molding Process with neat sketch.	07
	(b)	Explain Injection Blow Molding process with advantages and disadvantages. OR	07
Q.3	(a)	Define: Flash, Gate, Runner, Mold, Core, Cavity, Pinch off.	07
	(b)	Give any five Troubleshooting of Thermoforming process.	07
Q.4	(a)	Compare: Stretch Blow Molding with Extrusion Blow Molding.	07
•	(b)	What are the purpose of preconditioning & explain methods of preheating the thermoset molding.	07
		OR	
Q.4	(a) (b)	Explain the types of compression molds in detail along with figure. Give any five Troubleshooting of Blow Molding process.	07 07
Q.5	(a)	What is Plastic Processing? Give various processing methods for thermoplastics and thermosets along with applications.	07
	(b)	Write a note on: Bulk Factor and Preforms. OR	07
Q.5	(a) (b)	Draw general purpose screw for Injection molding & explain its terminology. Explain calendaring process with line diagram.	07 07
