Seat No.: Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V • EXAMINATION – WINTER 2013

	U	Code: 152304 Date: 09-12-2013		
Subject Name: Plastic Processing and Machinery				
Time: 10.30 am - 01.00 pm Instructions: Total Marks: 70				
inst	1. 2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a)	Give the principle of pot transfer molding. List down the difference between pot and plunger transfer molding.	07	
	(b)	Explain injection Blow Molding process with advantages and disadvantages.	07	
Q.2	(a) (b)	Define RIM? Describe the process steps in detail. What is stretch Blow Molding Process? Why it is used? Explain with advantages and disadvantages. OR	07 07	
	(b)	Explain Plunger type Transfer Molding with neat sketch.	07	
Q.3	(a) (b)	Define Bulk Factor and Preforms. Explain with advantages and disadvantages. List out and explain the factors affecting on Compression Molding Process. OR	07 07	
Q.3	(a) (b)	Explain trouble shooting for Compression Molding. What is Injection Molding? Explain Process steps with line diagram along with advantages and disadvantages.	07 07	
Q.4	(a) (b)	List out and explain the types of compression molds in details. Explain pressure forming process with neat sketch. List out difference between Pressure and Vacuum Forming. OR	07 07	
Q.4	(a) (b)	Provide detail comparison of Transfer and Injection Molding process. Explain the types of calender rolls with neat sketch.	07 07	
Q.5	(a)	What is thermoforming Process? Explain plug assist forming process with detail.	07	
	(b)	Define Blow Molding. What is extrusion blow Molding? Clarify extrusion blow molding. Explain any one in detail. OR	07	
Q.5	(a) (b)	Draw general purpose Screw and explain Nomenclature of screw. Explain free forming. Mechanical forming and matched die forming.	07 07	
