Seat No.:	Enrolment No.

Subject Code: 152304

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V • EXAMINATION - SUMMER • 2015

Date: 15/05/2015

Subject Name: Plastics Processing & Machinery Time: 02.30pm-05.00pm Instructions:		2.30pm-05.00pm Total Marks: 7	Total Marks: 70	
	1. 2. 3.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a)	With the help of neat sketch explain injection molding process and provide merits and demerits of the same process.	07	
	(b)	Draw line diagram of Reaction Injection Molding and describe the process steps in detail.	07	
Q.2	(a) (b)	Provide Comparison of processes namely Transfer & Injection Molding. Enlist the different types of mold used in compression molding process and explain any two with neat sketch	07 07	
	(b)	OR What is General Purpose Screw? Draw and explain its each terminology.	07	
Q.3	(a)	Give trouble shooting for Thermoforming.	07	
	(b)	Give trouble shooting for Transfer Molding. OR	07	
Q.3	(a)	What is bulk factor and performs? Explain with advantages & disadvantages of the same.	07	
	(b)	What is compression molding? Explain the process with neat sketch along with advantages & disadvantages.	07	
Q.4	(a) (b)	Compare Transfer Molding & Compression Molding Process Define thermoforming Process. Explain Plug Assist Forming Process with neat sketch?	07 07	
ΩA	(a)	OR Compare Injection blow molding & Extrusion Blow Molding Process.	07	
V. T	(b)	Define Calendering Process. Explain Calendering line with neat sketch	07	
Q.5	(a)	Define Processing of Plastics. Enlist and explain various processing methods for	07	
	(I-)	Thermoplastic & Thermoset.	07	
	(b)	Explain Selection Criteria for selecting the Plastics Processing methods. OR	07	
Q.5	(a)	What is Stretch Blow Molding Process? Why it is used? Explain with advantages & disadvantages.	07	
	(b)	Explain free forming, Mechanical forming & matched die forming process.	07	
