GUJARAT TECHNOLOGICAL UNIVERSITY

GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-V- EXAMINATION – SUMMER 2016 Subject Code: 152304 Date: 17/05/2016			
Subject Name: Plastic Processing & Machinery (Institute Elective-II) Time: 02:30 PM to 05:00 PM Total Marks Instructions:			70
 Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 			
Q.1	(a) (b)	What is Injection Molding? Explain Process steps with line diagram along with advantages & disadvantages Compare: Compression Molding with Transfer Molding	07 07
Q.2	(b) (a) (b)	Explain trouble shooting for Compression Molding Explain Plunger type Transfer Molding Process with neat sketch OR	07 07 07
	(b)	List out and explain the types of compression molds in details.	07
Q.3	(a)	What is calendering? Why it is used? Explain calendering line with neat sketch	07
	(b)	Which are the materials use for thermoforming? Explain any two process of thermoforming.	07
Q.3	(a)	OR Give trouble shooting for Transfer Molding.	07
Q.5	(a) (b)	Define: (1) Parison (2) Curing (3) Core (4) Cavity (5) Preform (6) Blow-Up- Ratio (7) Pinch-off	07
Q.4	(a)	What is stretch Blow Molding Process? Why it is used? Explain with advantages & disadvantages	07
	(b)	Comparison of Injection blow molding & Extrusion Blow Molding. OR	07
Q.4	(a)	Explain pressure forming process with neat sketch. List out difference between Pressure & Vacuum Forming	07
	(b)	Explain different Roll arrangement for Calendaring Process	07
Q.5	(a) (b)	Draw general purpose Screw and explain Nomenclature of screw. Explain the types of calender rolls with neat sketch. OR	07 07
Q.5	(a)	Explain: (I) Parison Programming	07
	(b)	(II) Injection Blow Molding What is Reacting Injection Molding? Describe the process steps in detail.	07

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