GUJARAT TECHNOLOGICAL UNIVERSITY

BE – SEMESTER – VI (NEW).EXAMINATION – WINTER 2016

Subject Code: 2163407 Date: Subject Name: Plastic Manufacturing Technology			Date: 26/10/2016	
		: 02:30 PM to 05:00 PM etions: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full monks.	Total Marks: 70	
		3. Figures to the right indicate full marks.		
Q.1	(a)	Define: Plastics Processing Techniques. Which are the selecthoosing a particular processing method?	ection criteria for	07
	(b)	Explain about thermoset injection moulding process, parts and their respective functions with a neat sketch		
Q.2	(a) (b)	Explain Extrusion Blow Molding Process with neat sketch Compare :Thermoplastics Injection Molding with Thermoset Injection Molding		07 07
	a \	OR		
	(b)	What is L/D ratio and compression ratio? Give the factor Pressure?	rs governing back	07
Q.3	(a) (b)	With a neat sketch diagram explain the various types of clamping systems Compare: Twin screw extruders with Single screw extruder OR		07 07
Q.3	(a) (b)	What is parison programming? Explain about it in detail Draw generalized Screw used for Injection molding. Explain any three terminologies related to it.		07 07
Q.4	(a) (b)	Explain the types of mold used in compression molding wi What is drape forming? Give the advantages of pressure forming?	•	07 07
		OR		
Q.4	(a) (b)	Write about twin screw extruders in detail and give its merits and demerits? Explain vented barrel extruder operation with a neat sketch along with its applications		07 07
Q.5	(a) (b)	Explain drape forming and plug assisted forming with suitable sketches Explain the construction and working of injection blow moulding along with its applications in a neat sketch		07 07
<u> </u>		OR		~ -
Q.5	(a) (b)	Give details for merits and demerits of Transfer Molding Machine Discuss the Trouble shooting and its remedies for the Transfer Molding Machine.		07 07
