Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE SEMESTER - V EXAMINATION - WINTER 2013

Subject Code: 153405 Subject Name: Plastic Manufacturing Technology			Date: 09-12-2013	
Time: 10:30 am – 01:00 pm Instructions: Total Mai			ks: 70	
	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a) (b)	Write down the startup and shutdown procedure of injection molding Explain briefly about different types of screws used in injection molding machine	07 07	
Q.2	(a) (b)	Explain the process of injection molding with neat and detailed diagram Explain any six faults and remedies in injection molding with neat sketch OR	07 07	
	(b)	Explain the different types of clamping system with neat sketch	07	
Q.3	(a)	Explain process and moulding types of compression molding briefly with diagram	07	
	(b)	Explain transfer moulding briefly with a neat sketch also explain the advantages and disadvantages	07	
		OR		
Q.3	(a) (b)	Compare compression moulding and transfer molding Explain the types of mold used in transfer molding with diagram	07 07	
Q.4	(a) (b)	What is extrusion. Explain process with simple sketch What are all the factors to be maintained while carrying out extrusion operations and why?	07 07	
0.4	(a)	OR Explain automaian blass malding with next already	07	
Q.4	(a) (b)	Explain extrusion blow molding with neat sketch Explain stretch blow molding with neat sketch	07 07	
Q.5	(a)	Explain general process of blow molding as a step by step process with neat sketch	07	
	(b)	Explain pressure back forming, vaccum forming, and matched die forming with neat sketch	07	
Q.5	(a)	OR Explain drape forming, free forming, and general thermoforming process with neat sketch	07	
	(b)	Explain hand injection molding briefly with neat sketch	07	
