Seat No.:		Enrolment No.	
GUJARAT TECHNOLOGICAL UNIVER			RSITY
		BE SEM-V Examination-Nov/Dec2011	
Subject code: 152304 Date			e: 03/12/201
Subj	ect N	Name: Plastic Processing & Machinery	
		1 1	al marks: 70
Instru		s: Attempt all questions.	
		Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
Q.1	(a)	Define Blow Molding. Explain Material characteristic required for Blow Molding Process. List the basic Process	
		steps for Blow Molding.	•
	(b)		07
		Intermittent Extrusion Blow Molding Process with near	
		sketch.	
Q.2	(a)	Define Thermoforming. List Advantages & Disadvantages	07
~. 2	(4)	of Thermoforming. List the basic Process steps of it.	. 07
	(b)	List & Explain the Material characteristic required for	07
		Thermoforming.	
	(h)	OR List the types of the Forming process. Explain Drape	• 07
	(6)	forming process with neat sketch.	07
Q.3	(a)	•	07
	(b)	the field of Packaging. Differentiate: Injection Blow Molding &	07
	(6)	Extrusion Blow Molding	07
		OR	
Q.3	(a)	Define: (1) Compression Molding (2) Curing (3) Core	07
	(b)	(4) Cavity (5) Preforms (6) Blow-Up-Ratio (7) Pinch-off Explain in brief: (1) Bulk Factor (2) Heaters for	07
	(0)	Compression Mold	07
		•	
Q.4	(a)	71 1	07
	(b)	Explain Semi-Positive Mold with Neat sketch. Differentiate: Compression Molding & Transfer Molding	07
	(0)	OR	07
Q.4	(a)	Define Transfer Molding. List types of Process of Transfer	07
0.4		Molding. Explain any one with neat sketch.	0=
Q.4	(b)	Define Term Plastic Processing. List the various methods used for Processing of Thermoplastic &Thermoset	
		materials	•
Q.5	(a)	÷	07
	(b)	Explain different Roll arrangement for Calendaring	; 07
		Process. OR	
Q.5	(a)		• 07
-	. /	Injection Molding Process with neat sketch.	

Define Reactive Injection Molding (RIM). Explain process **07** of RIM with Flow diagram.

(b)

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