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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER- VI (New) EXAMINATION - WINTER 2019			
Subject Code: 2163407 Date: 09/12/2019			
Subject Name: Plastic Manufacturing Technology			
Time: 02:30 PM TO 05:00 PMTotal Marks: 70Instructions:			
msuu		Attempt all questions.	
	2.	Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	Define Plastics Processing Techniques and write down selection criteria for choosing a particular processing method?	03
	(b)	Explain Melting & Solidification behavior of polymer	04
	(c)	What are the process parameters merits and de-merits of Thermoset Injection moulding machine.	07
Q.2	(a)	Define:1) Shot Capacity, 2) Clamping Force, 3) Injection pressure	03
	(b)	Write down Cycle time process variables & its effects on moulding quality	04
	(c)	Explain Transfer Molding with merits and demerits	07
	(c)	OR Explain Influence of process variables such as temperature, pressure, part size	07
	(U)	& configuration on quality and cycle time of Compression moulding	07
Q.3	(a)	Write a short note on Plunger transfer moulding	03
•	(b)	Differentiate between single screw extruder and Twin screw extruder	04
	(c)	Classify the types of screw used in extrusion and explain any one in details	07
		with neat sketch.	
Q.3	(a)	OR Write a short note on screw transfer moulding	03
Q.3	(a) (b)	Write down merit and de-merit of Twin screw extruder	03 04
	(\mathbf{c})	Classify the types of dies used in extrusion and explain any one in details with	07
		neat sketch.	
Q.4	(a)		03
	(b)	Write short note on multilayer blow moulding process	04
	(c)	Write down the Trouble shooting in blow moulding with remedies	07
Q.4	(a)	OR Write a short note on Cast film	03
דיע	(a) (b)	Differentiate between extrusion blow moulding process & injection blow	03
	(~)	moulding process.	• •
	(c)	Explain parision programming.	07
Q.5	(a)	Classify the types blow moulding machine	03
	(b)	Discuss Matched die forming in detail	04
	(c)	Explain pressure forming process with neat sketch	07
		OR	
Q.5	(a)	Write down design factors affecting blow mould product	03
	(b)	Discuss in drape Forming in detail	04
	(c)	Explain plug assist thermoforming process with Advantage, Disadvantage & applications.	07
