Seat No.:	Enrolment No
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GUJARAT TECHNOLOGICAL UNIVERSITY

ME – SEMESTER II (NEW) – • EXAMINATION – SUMMER 2016			
	•	Code: 2721605 Date: 31/05/20	16
	•	Name: Polymer Processing	70
	ne:10 tructio	:30 am to 01:00 pm Total Marks: 7	/ U
11130	1. 2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1		Explain Polymer Processing. List out & explain the various processing methods by which polymers are made into consumer products.	14
Q.2	(a)	Write the advantages & limitations of Injection Molding Process.	07
	(b)	Explain the working of a Continuous Mixer with Sketch. OR	07
	(b)	Explain the working of Ribbon Blender & Continuous Kneader.	07
Q.3	(a)	Define the term Extrusion. Write in detail about the fundamentals of Extrusion.	07
	(b)	Short note on õScrew as an important part of Extruderö. OR	07
Q.3		List the functions & advantages of Single Screw Extruder. Discuss in detail about the three different zones in Single Screw Extruder.	14
Q.4		Give the comparison between Compression & Transfer Moulding. OR	14
Q.4	(a)	Discuss in different characteristics occurred during Compression Moulding.	07
	(b)	Short note on õMoulding Stagesö in Compression Moulding.	07
Q.5	(a)	Define the term Blow moulding. With suitable sketches, explain how a spherical hollow object is blow molded in a technique that combines extrusion & blowing into the job of a single implement.	07
	(b)	List the different techniques of Thermoforming. Describe any one in detail.	07
		OR	
Q.5	(a)	Define the term õLaminationö. What are the different types of Laminates manufactured?	07
	(b)	Short note on õTrouble Shootingö in Calendering Process.	07