Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-III • EXAMINATION – SUMMER 2013
Subject Code: 132302
Date: 29-05-2013

Subject Name: Manufacturing of Plastic Materials Time: 02.30 pm - 05.00 pm Instructions: Total Marks: 70			
Instit	1. 2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	Discuss the manufacturing process of styrene and vinyl chloride monomers. Give a brief description about suspension and emulsion polymerization technique.	07 07
Q.2	(a) (b)	Define the following a)Copolymer b)Blend c) Initiator Explain differentiate between Thermoplastics and Thermo- sets? OR	07 07
	(b)	What are the stereo regular polymers? Explain.	07
Q.3	(a)	Explain the term Confirmation and Configuration with suitable examples	07
	(b)	Draw the layout of Naphtha Cracking Process. OR	07
Q.3	(a) (b)	Differentiate between homopolymer and copolymer with suitable examples. Write the manufacturing technique of acrylonitrile monomer.	07 07
Q.4	(a) (b)	Explain differentiate between copolymer and blend. Explain in short a) Bulk polymerization b) Curing c) chain polymerization OR	07 07
Q.4	(a) (b)	Explain manufacturing process of Melamine Formaldehyde resin. Differentiate between Linier and Cross linked Polymer	07 07
Q.5	(a) (b)	Explain the properties and applications of Unsaturated Polyester resins. Give properties and applications of epoxy resins. OR	07 07
Q.5	(a) (b)	Explain the manufacturing process of Resols. Draw a plant layout of PVC as Plastics raw material industry	07 07
