Seat No.: Enrolr

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-III • EXAMINATION - SUMMER • 2014

Subject Code: 132302 Date: 28-05-2014 Subject Name: Manufacturing of Plastic Materials - I			
Time: 02.30 pm - 05.00 pm Instructions: Total Marks: 70			
	1. 2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	Explain Solution polymerization with Advantages and Disadvantages? What is Homopolymer and Copolymer?	07 07
Q.2	(a) (b)	Explain production and manufacturing of Acyrlonitrile with a flow sheet? What is tacticity? What are the types of tacticity? OR	07 07
	(b)	What are the properties and application of Epoxy resins?	07
Q.3	(a) (b)	Explain the manufacturing process of Phenol formaldehyde(Resol)? Difference between Thermoplastic and Thermoset polymer?	07 07
		OR	
Q.3	(a) (b)	Explain the manufacturing process of Unsaturated polyester resins? What is crystalline polymer & what is amorphous polymer?	07 07
Q.4	(a) (b)	What is CMC? Explain Emulsion polymerization in detail? Difference between Linear and Crosslinked polymer?	07 07
		OR	
Q.4	(a) (b)	What are the properties and application of UF and MF Resin? Explain the manufacturing process of Butadiene monomer?	07 07
Q.5	(a) (b)	Explain Naptha Cracking with a labelled diagram? Differentiate between Confirmation and Configuration? OR	07 07
Q.5	(a)	Explain the manufacturing process of Vinyl chloride monomer with the help of a flow sheet?	07
	(b)	List out difference between novalac and resols?	07
