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Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-III • EXAMINATION – WINTER • 2014

Su	bject	Code: 2132302 Date: 30-12-2014	
Su	bject	Name: Manufacturing of Plastic Materials-1	
Tiı	ne: 0	02.30 pm - 05.00 pm Total Marks: 70	
Inst	tructio		
		Attempt all questions.	
	2.	·	
	3.	Figures to the right indicate full marks.	
Q.1	(a)	Define Monomer and Polymer and give five examples of monomer and their polymer.	07
	(b)	Give synthesis of Novalac and Resole.	07
Q.2	(a)	State properties and application of Phenol formaldehyde resin.	07
Q.2	(b)	Write a note on UF and MF resin.	07
	(6)	OR	07
	(b)	Give example of thermoplastics polymers and explain Polypropylene in detailed.	07
Q.3	(a)	Explain the term Confirmation & Configuration with suitable example.	07
	(b)	Give distillation of Naphtha in details.	07
		OR	
Q.3	(a)	Give synthesis, properties and application of Epoxy resin.	07
	(b)	Draw the layout of Naphtha Cracking Process.	07
Q.4	(a)	Give detail synthesis of phenol monomer and urea monomer.	07
	(b)	Write note on Polyester resin.	07
		OR	
Q.4	(a)	Explain monomers for polyurethane resin along with examples.	07
	(b)	Give application and properties of polyurethane resins.	07
Q.5	(a)	Give synthesis, properties and application of PET.	07
	(b)	Explain silicon polymers along with examples.	07
		OR	
Q.5	(a)	Give difference between thermosets and thermoplastic polymers.	07
	(b)	Explain Atactic, Isotactic and Syndiotactic polymers.	07
