## **GUJARAT TECHNOLOGICAL UNIVERSITY** B. E. - SEMESTER – III • EXAMINATION – WINTER 2012

Subject Name: Manufacturing of Plastic Materials-I			Date: 05-01-20		
			Total Marks:		
Inst	1. A 2. N	<b>DDS:</b> Attempt all questions. Aake suitable assumptions wherever necessary. Yigures to the right indicate full marks.			
Q.1	(a)	Give a brief description about solution polymerization	n technique.	07	
	<b>(b)</b>	Discuss the manufacturing process of butadiene mono	omer.	07	
Q.2	(a) (b)	What are the different types of copolymers? Explain. Draw the plant layout of any plastic material manufac <b>OR</b>	turing industry.	07 07	
	<b>(b)</b>	Explain about stereo regular polymers with example.		07	
Q.3	(a) (b)	Write the manufacturing technique of ethylene monomer. What are the linear, branched and cross linked polymers. <b>OR</b>		07 07	
Q.3	(a) (b)	Discuss the suspension polymerization technique. Explain in short a) CMC b) Initiator c) Curing		07 07	
Q.4	(a) (b)	Explain the manufacturing process of Resols and Nov Explain the properties and applications of thermoset p OR		07 07	
Q.4 Q.4	(a) (b)	Explain the properties of UF and MF resins. Explain the manufacturing process of epoxy resins.		07 07	
Q.5	(a) (b)	Draw the layout of Naphtha Cracking Process. Discuss about UF moulding powder. <b>OR</b>		07 07	
Q.5	(a) (b)	Discuss the manufacturing process of MF resins. Explain the properties of epoxy resins		07 07	

\*\*\*\*\*