Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV • EXAMINATION - WINTER • 2014

Su	bject	Code: 143404 Date: 02-01-2015	
Su	bject	Name: Plastic Materials	
Tiı	ne: 0	2:30 pm - 05:00 pm Total Marks: 70	
Inst	tructio		
	1. 2. 3.	Make suitable assumptions wherever necessary.	
Q.1	(a) (b)	Define Macromolecule and explain suspension polymerization in detail. Write a note on Bulk polymerization along with example.	07 07
Q.2	(a) (b)	Differentiate Thermoplastic and Thermosets. Give various forms of Polyethylene and discus its applications. OR	07 07
	(b)	Write down synthesis, properties and application of PVC.	07
Q.3	(a) (b)	Give properties and application of PET and PBT Discuss engineering plastic and give details for Polyether ether ketone (PEEK). OR	07 07
Q.3	(a) (b)	Give different form of Nylons and explain any one in detail. Write a note on Emulsion polymerization.	07 07
Q.4	(a) (b)	Give synthesis, properties and application of ABS polymer. Enlist properties and application of Polycarbonate. OR	07 07
Q.4	(a) (b)	Write a note on water soluble polymers along with examples. Explain Liquid Crystal Polymers.	07 07
Q.5	(a) (b)	Write a note on PF (Phenol-formaldehyde) resin. Give Synthesis, properties and application of Epoxy resin. OR	07 07
Q.5	(a) (b)	Discuss recycling of polymers and enlist the recycling code for thermoplastics. Write a note on application of polymers in electrical, sports and medical fields.	07 07
