Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-IV • EXAMINATION – WINTER 2013

BE - GENTEGIER-IV EXMINIMATION - WINTER 2013

	•	Code: 143404 Date: 30-12-2013	
Ti	•	Name: Plastic Materials 02:30 pm to 05:00 pm Total Marks: 70 ons:	
	1. 2. 3.		
Q.1	(a)	What is polymer? Give the difference between amorphous and crystalline polymer.	07
	(b)	What is the difference between Thermoplastic and Theromoset with example	07
Q.2	(a)	Write down the preparation, structural properties and applications of polypropylene	07
	(b)	Write down the preparation, structural properties and applications of PS OR	07
	(b)	Write down the structure, manufacturing methods, properties and application of PVC	07
Q.3	(a) (b)	Write down the properties and application of ABS and polycarbonate. Write down the manufacturing methods, properties and application of PET and PBT	07 07
		OR	
Q.3	(a)	Mention the general structure, properties and application, density and Tg of PVF and PTFE	07
	(b)	Write down the manufacturing methods, properties and application of poly acetal	07
Q.4	(a)	List out the polymerization techniques? Explain any two polymerization techniques	07
	(b)	Write down the properties and application of polyimide and polyamide OR	07
Q.4	(a) (b)	Write down the properties and application of thermoset materials Mention the manufacturing methods, properties of silicones and polyurethane	07 07
Q.5	(a)	What is the recycling code of commodity, enfineering and thermoplast materials	07
	(b)	Explain briefly notes on (a) Bio degradable polymer (b) Water soluble polymer OR	07
Q.5	(a) (b)	Explain the application of plastics in aerospace and packaging fields Explain the application of plastic in medical and sports fields	07 07
