Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER- IV(NEW) EXAMINATION - SUMMER 2015

	•	t Code: 2142306 Date:30/05/2015 t Name: MANUFACTURING OF PLASTICS MATERIAL-2	5
Ti	me:	10:30am-1.00pm Total Marks: 7	' 0
Ins	2	ons: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.	
Q.1	(a) (b)	Compare: Addition Polymerization with Condensation Polymerization Explain the preparation of Polypropylene with the help of a flow chart.	07 07
Q.2	(a)	Explain the industrial process of manufacturing HDPE with the help of a flow chart.	07
	(b)	How vinyl chloride monomer is polymerized? With the help of a neat sketch describe the manufacturing of PVC by Suspension Polymerization. OR	07
	(b)	List the monomers of Nylon 6 and Nylon 66. List the properties and application of Nylon66.	07
Q.3	(a)	Define:(1)Distillation(2)Absorption(3)Stripping(4)Extraction(5)Crystallization (6) Homo Polymer (7) Co polymer	07
	(b)	List the properties and application of PS and HIPS.	07
Q.3	(a) (b)	OR Explain structure and properties relationship of Polyethylene. Enlist the properties and applications of PEEK and PPS.	07 07
Q.4	(a)	Which are the monomers of PC? Write polymerization reaction of PC. List the properties of PC.	07
	(b)	Define: Engineering Plastics. Give general comparison of Engineering plastics with Commodity plastics.	07
Q.4	(a) (b)	OR List the properties and application of Polyacetal. Explain the manufacturing process of LDPE.	07 07
Q.5	(a)	What are the properties of Isotactic polypropylene and how it is different from Atactic polypropylene?	07
Q.5	(a) (b)	OR Compare: Bulk Polymerization with Solution Polymerization. List properties and application of Acrylics.	07 07 07
