Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

ME - SEMESTER-I(New course) • EXAMINATION - WINTER- 2015

Subject Code: 2712401			Date: 01/01/2016	
Subject Name: PLASTICS MATERIALS Time: 2:30 pm to 5:00 pm Instructions: Total Mai		:30 pm to 5:00 pm Total Marks: 7	ks: 70	
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Q.1	(a) (b)	Describe the manufacturing process of Polypropylene by Ziegler Natta Process with diagram. Give its general properties and applications. With help of flow diagram, describe the suspension process for manufacturing PVC. What are the main advantages and disadvantages of this process	07 07	
Q.2	(a) (b)	Differentiate in between LDPE, HDPE, and LLDPE Explain the properties and application of Poly Methyl Methacrylate (PMMA). OR	07 07	
	(b)	Explain the Monomer Preparation, Mass Polymerization(Tower Process) and Applications of Polystyrene.	07	
Q.3	(a)	Explain the Source, Manufacturing process, properties and applications of Nylon 66 Explain the Manufacturing Properties and applications of APS	07	
	(b)	Explain the Manufacturing , Properties and applications of ABS. OR	07	
Q.3	(a) (b)	Write a short note on (I) PET (II) PVDF Write down the important properties and processing characteristics and applications of PEEK.	07 07	
Q.4	(a) (b)	Explain the properties and applications of PPO Explain the Manufacturing, properties and applications of PTFE. OR	07 07	
Q.4	(a)	Give the structure of polysulphone and give their characteristics and applications.	07	
	(b)	Explain in details the Conducting polymer. List various conducting polymers and give their applications.	07	
Q.5	(a)	Explain the manufacturing process and applications of Melamine Formaldehyde resin.	07	
	(b)	Explain the properties and applications of PU. OR	07	
Q.5	(a)	Explain the Manufacturing process, Properties and applications of Phenol Formaldehyde.	07	
	(b)	Explain the Properties and Applications of Epoxy Resin.	07	
