Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

## B. E. - SEMESTER - VII • EXAMINATION - WINTER 2012

Subject cod	le: 17	<b>V2304</b> Date: 27/1	2/2012
Subject Na	me: I	Manufacturing of Thermoplastic Materials	
Time: 10.30		- 01.00 pm Total Ma	rks: 70
Instruction			
2. Ma	ake sui	any five questions. itable assumptions wherever necessary. o the right indicate full marks.	
Q.1	(a)	Explain Manufacturing Process of LDPE & Application of LDPE.	07
	<b>(b)</b>	Explain Manufacturing Process of Nylon 6 & Application of Nylon 6.	07
Q.2	(a)	List Properties & Application of PP.	07
	<b>(b)</b>	Explain Manufacturing Process of HDPE.  OR	07
	<b>(b)</b>	Describe about Polymerization, structure and properties of PVC.	07
Q.3	(a)	List copolymers of Styrene. Give Chemical structure of each. List at least three properties of each.	07
	<b>(b)</b>	Explain structure / property relationship for Polyamide.  OR	07
Q.3	(a)	Describe manufacturing process and application of PC.	07
	<b>(b)</b>	Short note on (I) Polyacetal (II) PTFE	07
Q.4	(a)	Give Chemical structure of Polysulphone. Also list properties & application of Polysuphone.	07
	<b>(b)</b>	List Properties of PPO & PVDF.  OR	07
Q.4		Short Note on: Liquid Crystal Polymer.	07
Q.4	<b>(b)</b>	List Properties & Application of PEEK.	07
Q.5	(a)	Describe Manufacturing Process & Application of PMMA	07
	<b>(b)</b>	Short note: Electro conductive Polymer.  OR	07
Q.5	(a)	Short note: Photo conductive Polymer	07
	<b>(b)</b>	Short note: Ion- Exchange Polymer	07

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