Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma Engineering - SEMESTER–III • EXAMINATION – WINTER 2013

Subject Code: 332304 **Date: 04-12-2013**

Subject Name: Plastics Materials

Time: 02:30 pm - 05:00 pm **Total Marks: 70**

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**
4. **English version is considered to be Authentic.**

Q.1	(a)	Define rheology. Explain various types of flow in brief.	**07**
	(b)	Suggest proper plastics material for Telephone, Wire cable, Woven sacks, Blood transfusion tubes, Nonstick cook-wear, Bearing, Disposable cup.	**07**
Q.2			
	(a)	Write basic properties and applications of PVC.	**07**
	(b)	Explain properties of ABS in detail.	**07**
		OR	
	(b)	Write applications of PMMA.	**07**
Q.3			
	(a)	Write applications and properties of Epoxy.	**07**
	(b)	Give applications of DAP.	**07**
		OR	
Q.3	(a)	Give applications and properties of UF.	**07**
	(b)	Write properties of PUR.	**07**
Q.4			
	(a)	List the properties and applications of PTFE.	**07**
	(b)	Explain properties of PC.	**07**
		OR	
Q. 4	(a)	Give applications of Nylon 6.	**07**
	(b)	Write short note on, “Polyesters”.	**07**
Q.5			
	(a)	List various high performance and heat resistant plastics and write applications of PPO.	**07**
	(b)	Write properties of PEEK.	**07**
		OR	
Q.5	(a)	Write short note on, “Twin screw extruder”.	**07**
	(b)	Define fillers. Write types of filler and explain it in brief.	**07**

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