Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma Engineering - SEMESTER–III • EXAMINATION – SUMMER • 2014

Subject Code: 332304 **Date: 21-06-2014**

Subject Name: Plastics Materials

Time: 10:30 am - 01:00 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)	Write properties and applications of PP.	**07**
	(b)	Define rheology. Explain various types of material flow with related graphs.	**07**
Q.2	(a)	Discuss properties and application of Polyamides.	**07**
	(b)	List various compounding methods for plastics and explain any one in detail.	**07**
		OR	
	(b)	List various additives used in plastics. Explain lubricants in detail with example.	**07**
Q.3	(a)	Write properties and applications of GPPS.	**07**
	(b)	Write properties and epoxy resin.	**07**
		OR	
Q.3	(a)	Discuss properties and application of PVC.	**07**
	(b)	Discuss properties and application of PF.	**07**
Q.4	(a)	Write properties and applications of PSO	**07**
	(b)	Discuss properties and application of PTFE.	**07**
		OR	
Q. 4	(a)	Discuss properties and application of PEEK	**07**
	(b)	Write properties and application of PC.	**07**
Q.5	(a)	Write properties and applications of PPO.	**07**
	(b)	Explain Maxwell model.	**07**
		OR	
Q.5	(a)	Discuss properties and applications of PE.	**07**
	(b)	Suggest suitable Plastics material for the following products.	**07**
		1) Display boards 2) fountain pen 3) wrist watch gear 4) helmet 5) mobile phone body 6) flooring 7) refuse sack	

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