GUJARAT TECHNOLOGICAL UNIVERSITY

${\bf DIPLOMA\ ENGINEERING-SEMESTER-III\ EXAMINATION-WINTER\ 2016}$

Subject Code: 332304 Date: 28-1		1-2016	
Subject Name: Plastics Materials Time: 10:30 AM to 01:00 PM Instructions: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. 4. Each question carry equal marks (14 marks)			70
Q.1	(a) (b)	Give the name of thermo plastic materials (at least 14). Write short note: "Two roll mill"	07 07
Q.2	(a) (b)	Compare thermo plastic materials with thermo set materials. Explain properties of High Density Poly Ethylene (HDPE). OR	07 07
	(b)	Explain temperature and viscosity relationship for plastic.	07
Q.3	(a) (b)	List the types of flow of polymer and explain in brief. Write applications of Poly Vinyl Chloride (PVC). OR	07 07
Q.3	(a) (b)	Explain visco-elastic behavior of plastic by Maxwell's model. List the additives used in compounding of plastic and explain any one in detail.	07 07
Q.4	(a) (b)	List the applications and properties of Phenol Formaldehyde (PF). Explain properties of Nylon-6. OR	07 07
Q.4	(a) (b)	Give applications of Epoxy material in various fields. List engineering plastic materials. Write applications of Fluorocarbons.	07 07
Q.5	(a) (b)	Give uses of Polycarbonate material (PC) in various applications. Write applications of Poly Ether Ether Ketone (PEEK). OR	07 07
Q.5	(a) (b)	Explain properties of PPS. Write full form of PPO and explain its properties.	07 07
