Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

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

Subje	ect co	ode: 172305		Date: 28/12/2012	
Subje	ect Na	ame: Plastic Testing and Instrumen	ıta	l Analysis	
Time	: 10.3	30 am - 01.00 pm		Total Marks: 70	
Instr	uctio	ons:			
		attempt any five questions.			
		Take suitable assumptions wherever necessar figures to the right indicate full marks.	y.		
	J. 1.	igures to the right indicate run marks.			
Q.1	(a)	Enlist all the environment factors that af detail.	fec	t Plastic and explain them in	07
	(b)	Define Following			07
		1	2.	Secant Modulus	
			4.	Modulus of Elasticity	
			6.	Toughness	
		7. Elongation			
Q.2	(a)	Explain Izod & Charpy test in detail.			07
	(b)	What is MFI? Explain process steps of tes	st.		07
	` ´	OR			
	(b)	Explain Rockwell hardness test in detail.			07
Q.3	(a)	Explain Vicat Softening Temerature test.			07
	(b)	Explain Compressive Properties of Plastic	in	detail.	07
		OR			
Q.3	(a)	What is Accelerated Weathering Test? Ex	pla	in Carbon Arc Lamps Test.	07
	(b)	Explain Outdoor Accelerated Weathering	tes	t.	07
Q.4 (a) Explain in detail Dielectric Constant & Dissipation factor.				pation factor.	07
	(b)	What is Refractive Index? Explain Refrac	ton	netric Method in detail.	07
0.4	()	OR			0.
Q.4	(a)	•			07
	(D)	Explain Solvent Stress Cracking Resistance	ce I	est.	07
Q.5	(a)	Explain Tensile Test in detail.			07
	(b)	What is DSC? Explain DSC in detail.			07
~ =		OR			~-
Q.5	(a)	What is Flexural Strength? Provide the ste	-	for performing flexural test.	07
	(b)	Explain Capillary Rheometer test in detail	l .		07
