	Diplo	GUJARAT TECHNOLOGICAL UNIVERSITY oma Engineering - SEMESTER-VI • EXAMINATION – SUMMER • 2014	
	•	Code: 362302 Date: 26-05-2014 Name: Testing and Quality Management	
		0:30 am - 01:00 pm Total Marks: 70	
Ins	tructio	ns: Attempt all questions.	
	2. 3. 4.	Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	Define HDT and write the ASTM procedure for HDT measurement. Draw neat sketch of its apparatus. Define "Testing". Describe importance of Testing.	07 07
Q.2	, ,	Draw neat sketch of tensile test specimen according to ASTM. Write the	07
Q. 2	(a) (b)	procedure of tensile test. Which factors affect the tensile test result? Define conditioning. Give significance of conditioning. OR	07
	(b)	Explain procedure for Rockwell hardness test with neat sketch.	07
Q.3	(a) (b)	Describe factors affecting HDT test results. Define Dielectric strength. Write test procedure for dielectric strength with neat sketch of its apparatus	07 07
Q.3	(a) (b)	OR Write short note on "Arc resistance test". Describe the test for measuring the Vicat softening temperature.	07 07
Q.4	(a)	Draw neat sketch of MFI test apparatus. Discuss factors affecting MFI test result.	07
	(b)	Draw neat sketch of ESCR test apparatus. Write test procedure for ESCR. OR	07
Q. 4	(a)	Define: (1) Light transmittance (2) Gloss. Write test procedure for any one of them.	07
	(b)	List various failure analysis techniques. Explain any one.	07
Q.5	(a) (b)	List advantages of S.Q.C. Write full form of :(1) B.I.S. (2) A.S.T.M. (3) I.S.O Write brief note on any one of them.	07 07
o =		OR	
Q.5	(a) (b)	Write short note on raw material quality control. Write a brief note on any one: (1) Cup flow test (2) Outdoor weather	07 07

Enrolment No._____

Seat No.: _____

resistance test