Seat No.:		To.: Enrolment No	Enrolment No	
	DII	GUJARAT TECHNOLOGICAL UNIVERSITY PLOMA ENGINEERING - SEMESTER-V • EXAMINATION – SUMMER •	2014	
	Subject Code: 355505 Date: 03-06-2014			
	-	ect Name: Welding Inspection and Testing : 02:30 pm - 05:00 pm Total Marks: 70 ections:		
	2. 3.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. Each question carry equal marks (14 marks)		
Q.1		Define the term "welding inspection". Prepare classification chart of different welding tests.	07	
Q.2	(b) (a) (b)	Explain inspection process carries out before, during and after welding. Explain different qualities required for the post of welding inspector. Define the terms "discontinuity" and "defect". Prepare list of the different of them for base metal and weld metal.	07 07 07	
	(b)	Or Explain causes and remedies of any seven weld defects with sketch.	07	
Q.3	(a) (b)	Compare destructive testing and non destructive testing. What is TPI? Prepare list of different TPI in the field of fabrication. Or	07 07	
Q.3	(a) (b)	Explain procedural steps of Penetrant testing with neat sketches. Explain working principle of X-ray radiography with neat sketch.	07 07	
Q.4	(a) (b)	Explain advantages, limitations and application of radiography testing. Describe FIVE RT techniques with neat sketches. Or	07 07	
Q. 4	(a) (b)	Describe properties of sound waves with neat sketch and write its application.	07 07	
Q.5	(a)	What is ultrasonic transducer? Explain different types of ultrasonic transducer with neat sketch.	07	
	(b)	Explain procedure used for MPT testing with neat sketch. Or	07	
Q.5	(a)	List different destructive test for weld joint. Explain tensile test with neat	07	

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Describe procedure of bend testing with neat sketch.

sketch.

(b)