GUJARAT TECHNOLOGICAL UNIVERSITY DIPLOMA ENGINEERING – SEMESTER – V-EXAMINATION – WINTER 2015

Subject Code: 3355505 Date: 14/ Subject Name: Welding Inspection and Testing			12/2015	
	-	10:30 AM TO 1:00 PM Total Marks: 7	70	
In	 M Fi 	ons: ttempt All questions. Iake suitable assumptions wherever necessary. igures to the right indicate full marks. ach question carry equal marks (14 marks)		
Q.1	(a) (b)	Define the terms "DT" and "NDT". Prepare classification chart of Discontinuity. Define the term "Discontinuities". Explain FOUR Weld Ment & Related discontinuities with neat sketches.	07 07	
Q.2	(a) (b)	Draw neat sketches of Acceptable and unacceptable Fillet weld profiles. Describe the Term "Preheating" & "Post Heat Treatment". OR	07 07	
Q.3	(b) (a) (b)	Draw and Describe Basic Elements of Testing symbols as per AWS A2.4. Describe NINE steps of LPT with neat sketch. Describe Important Characteristic of Welding Inspector. OR	07 07 07	
Q.3	(a) (b)	Describe Advantages and Disadvantages of LPT. Prepare WPS format with suitable example.	07 07	
Q.4	(a) (b)	Prepare List of different DT methods for weld. Describe Impact Test with neat sketch. Explain Principle of Acoustic Emission Testing with neat sketch. OR	07 07	
Q. 4	(a) (b)	Draw neat sketch of Tensile Test specimen. Describe method of Tensile Testing. Describe Principle of Magnetic Particle Testing with neat sketch.	07 07	
Q.5	(a) (b)	Draw neat sketch of Ultra sonic Testing equipment. Describe steps of UT. Describe principle of Eddy Current Testing with neat sketch. OR	07 07	
Q.5	(a) (b)	Describe THREE types of Transducers with neat sketch. Describe Principle of Radiography Testing with neat sketch.	07 07	
