Seat No.:	Enrolment No.:

GUJARAT TECHNOLOGICAL UNIVERSITY

DIPLOMA ENGINEERING - SEMESTER - V • EXAMINATION -WINTER 2016

	•	Code: 3355505 Date: 29-11-2	010
Ti	•	Name: WELDING INSPECTION & TESTING 0:30 AM TO 01:00 PM Total Marks: as:	: 70
	 Ma Fig 	tempt all questions. Ake suitable assumptions wherever necessary. By the right indicate full marks. Ch question carry equal marks (14 marks)	
Q.1	(a) (b)	Describe the Term "Preheating" & "Post Heat Treatment". Define the term "Discontinuities". Explain Three Weld Ment related discontinuities with neat sketches.	07 07
Q.2	(a) (b)	Draw neat sketches of Acceptable and Unacceptable Fillet weld profiles. Describe important details of WPS. OR	07 07
	(b)	Describe important details of PQR.	07
Q.3	(a) (b)	Describe Impact Test procedure with neat sketch. Describe Principle of MPT with neat sketch & List one code reference of MPT.	07 07
Q.3	(a) (b)	OR Describe Tensile Test procedure with neat sketch. Describe Advantages and Limitations of MPT.	07 07
Q.4	(a) (b)	Describe basic principle of LPT with neat sketch. Describe principle of UT with neat sketch. OR	07 07
Q.4	(a) (b)	Describe procedure of LPT with neat sketch. Describe three types of Transducers with neat sketch.	07 07
Q.5	(a) (b)	Describe basic principle of X-ray Radiography. Compare Destructive testing V/S Non Destructive testing. OR	07 07
Q.5	(a) (b)	List Advantages & Disadvantages of Radiography Testing. Describe helium leak testing procedure.	07 07
