Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

DIPLOMA ENGINEERING - SEMESTER-V • EXAMINATION - SUMMER • 2015

Subject Code: 355505 Date: 15-05-2015

Subject Name: Welding Inspection and Testing

Time: 02:30 pm - 05:00 pm Total Marks: 70

Instructions:

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.
- 4. English version is considered to be Authentic.

Q.1	(a) (b)	State and Explain Responsibilities of Welding Inspection Engineer. Describe general steps of Welding Inspection.	07 07
Q.2	(a) (b)	State procedure for qualifying a welding inspector as per ASME. Prepare list of different TPI agencies with their field of working in Fabrication.	07 07
		OR	
	(b)	Differentiate between Weld Plan and Test Plan.	07
Q.3	(a)	State SEVEN Weld defects with their sketch, causes and remedies.	07
	(b)	Define the term "NDT". State and Explain its benefits. OR	07
Q.3	(a)	Differentiate between DT and NDT.	07
	(b)	Describe procedure of LPT with neat sketches.	07
Q.4	(a)	Describe principle of RT with neat sketch.	07
	(b)	Describe Principle of UT with neat sketch. OR	07
Q. 4	(a)	Describe procedure of Calculating Exposure Time and SFD with its formula.	07
	(b)	Explain Principle of AET with neat sketch.	07
Q.5	(a)	Describe any one type of MPT procedure with neat sketch.	07
	(b)	Describe Impact Testing Procedure with neat sketch.	07
		OR	
Q.5	(a)	Describe Principle of ET with neat sketch.	07
	(b)	Describe Bend Testing Procedure with neat sketch.	07
