Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma Engineering - SEMESTER – V • EXAMINATION – WINTER 2012

Date: 29/12/2012

Subject code: 355505

Subje	ect Na	nme: Welding Inspection and Testing	
		0 am - 01.00 pm Total Marks:	70
Instr	 M Fi E 	ttempt any five questions. Take suitable assumptions wherever necessary. Tigures to the right indicate full marks. Tiglish version is considered to be Authentic. Tive Point-wise Answers with neat figures wherever possible.	
Q.1 Q.2	(a) (b)	Describe Ethical and Essential qualities of a 'Welding Inspector'. Explain in brief: - 'QA Plan' and 'QC Plan'.	07 07
Q.Z	(a) (b)	Write names of SEVEN 'TPI agencies' with their fields of services. Describe selection criteria of Suitable NDT method to detect Welding Defects.	07 07
	(1.)	OR	
Q.3	(b)	Describe Need, Benefits and related Codes and Standards of NDT.	07
4.0	(a) (b)	Explain in brief with neat sketch : - Principle and process of LPT . state names of different Techniques of RT and Describe ANY ONE with neat sketch. OR	07 07
Q.3	(a) (b)	Explain in brief: - Role of ASME code for LPT examination. Describe importance of Exposure Time and SFD calculation in RT giving suitable example.	07 07
Q.4			
	(a) (b)	Describe weld examination procedural steps of UT with neat sketch. Explain in brief: - Magnetization and De-Magnetization process for MPT.	07 07
Q. 4	(a)	OR Explain in brief with neat sketch: Different types of UT Transducers	07
	(b)	with neat sketches. Describe Procedural steps of MPT with neat sketch.	07
Q.5			
4.0	(a) (b)	Write Advantages, Limitations and Application of AET. List out the different type of DT methods and Describe Tensile Test with neat sketch.	07 07
Q.5	(a) (b)	OR Describe different techniques of AET. Explain in brief: - Impact Test with neat sketch.	07 07
