

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA ENGINEERING – SEMESTER –V • EXAMINATION – SUMMER 2017

Subject Code: 3355505**Date: 11-05-2017****Subject Name: Welding Inspection and Testing****Time: 2.30 TO 5.00PM****Total Marks: 70****Instructions:**

1. Attempt All questions.
 2. Make suitable assumptions wherever necessary.
 3. Figures to the right indicate full marks.
 4. Each question carry equal marks (14 marks)
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- Q.1** (a) Comparison of Welding Symbol with written Explanation. **07**
(b) Define the term “Discontinuities”. Describe Dimensional Discontinuities with neat sketches. **07**
- Q.2** (a) Draw neat sketches of Acceptable and unacceptable Butt weld profiles. **07**
(b) Describe the Term “Preheating” & “Post Heat Treatment”. **07**
OR
(b) Draw and Describe Basic Elements of Testing symbols as per AWS A2.4. **07**
- Q.3** (a) Describe steps of LPT process with neat sketch. **07**
(b) Describe Important Details of WPS. **07**
OR
- Q.3** (a) Describe Advantages and Disadvantages of LPT. **07**
(b) Prepare WPS format with suitable example. **07**
- Q.4** (a) Comparison of DT and NDT. **07**
(b) State Advantages, Disadvantages and Application of Magnetic Particle Testing with neat sketch. **07**
OR
- Q.4** (a) Draw neat sketch of Tensile Test specimen. Describe method of Tensile Testing. **07**
(b) Describe Principle of Acoustic Emission Testing with neat sketch. **07**
- Q.5** (a) Draw neat sketch of Ultra sonic Testing equipment. Describe steps of UT. **07**
(b) Describe Principle of Radiography Testing with neat sketch. **07**
OR
- Q.5** (a) Describe types of Transducers with neat sketch. **07**
(b) Describe principle of Eddy Current Testing with neat sketch. **07**
