

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA ENGINEERING – SEMESTER –3rd • EXAMINATION – WINTER- 2016

Subject Code: 3335504

Date: 24-11-2016

Subject Name: Welding Technology-I

Time: 10:30 AM To 01:00 PM

Total Marks: 70

Instructions:

1. Attempt All questions.
 2. Make suitable assumptions wherever necessary.
 3. Figures to the right indicate full marks.
 4. Each question carry equal marks (14 marks)
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- Q.1** (a) State TEN points of ‘Why Power Source is required for welding?’ **07**
(b) Explain Advantages and Limitations of Welding Processes. **07**
- Q.2** (a) Describe SEVEN types of Weld Joints with neat sketches. **07**
(b) Draw neat sketches of DCSP and DCRP Configurations and Explain it. **07**
OR
(b) Differentiate between DCSP and DCRP welding. **07**
- Q.3** (a) Describe coding and specification method of Welding Electrode with example **07**
(b) Draw neat sketch of OCV and explain it. **07**
OR
- Q.3** (a) Draw neat sketch of standard location of elements of Welding Symbols. **07**
(b) Draw neat sketch of CCV and explain it. **07**
- Q.4** (a) Describe Arc blow and Arc Stability with neat sketches. **07**
(b) Draw neat sketches of SEVEN welding defects. State their causes & remedies. **07**
OR
- Q.4** (a) Describe principle of SMAW with neat sketch. **07**
(b) Draw neat sketches of any FIVE Welding Position and State their features **07**
- Q.5** (a) State advantages, disadvantages and application of SAW. **07**
(b) Describe need of WPS, WPQ and PQR for coded Fabrication. **07**
OR
- Q.5** (a) Describe principle of SAW with neat sketch. **07**
(b) Explain Scope of ASME Welding Codes in Fabrication Industries. **07**
