

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA ENGINEERING – SEMESTER –VI • EXAMINATION – SUMMER 2015

Subject Code: 335503**Date: 11 /05 /2015****Subject Name: Welding Technology-I****Time: 2:30 pm to 5:00 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)

- Q.1** (a) Draw and explain “Welding Terminology” with neat sketch. **07**
(b) Describe need, Scope and Importance of Welding in Industries. **07**
- Q.2** (a) Draw neat sketch of Welding Transformer and describe its working. **07**
(b) Prepare list and draw neat sketches of any SEVEN accessories of welding. **07**
- OR
- (b) Describe OCV, CCV and Duty Cycle with neat sketches. **07**
- Q.3** (a) Draw neat sketch of Thyristorised Welding Rectifier and describe its working. **07**
(b) Draw and explain Electrode detail with neat sketch. **07**
- OR
- Q.3** (a) Draw neat sketch of Inverter welding power source and describe its features. **07**
(b) Prepare Classification chart of welding electrodes. **07**
- Q.4** (a) Define the term “SMAW”. Describe its equipment with neat sketch. **07**
(b) State Advantages, Limitation and Application of SAW. **07**
- OR
- Q.4** (a) Define the term “SAW”. Describe its Principle with neat sketch. **07**
(b) Draw neat sketches of SEVEN welding defects and state their causes & remedies. **07**
- Q.5** (a) Describe Consumable guide method of ESW with neat sketch. **07**
(b) Describe Importance of different welding codes and standards. **07**
- OR
- Q.5** (a) Describe Non Consumable guide method of ESW with neat sketch. **07**
(b) State Meaning of the terms WPS, WPQ, PQR, P-number, F-number and A-number. **07**
