

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma Engineering - SEMESTER-III • EXAMINATION – WINTER 2013

Subject Code: 335503

Date: 02-12-2013

Subject Name: Welding Technology-I

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) Define the term “Welding” and Prepare Classification Chart of Welding Processes. **07**
(b) State Advantages and Limitations of Welding over other Temporary Joining Methods. **07**
- Q.2** (a) Draw neat sketch of any ONE Welding Power sources and describe its Specification. **07**
(b) Describe factors affecting selection of welding power source. **07**
OR
(b) Describe factors affecting selection of Particular Welding Process. **07**
- Q.3** (a) Draw neat sketch of Inverter type Welding Equipment and write its Specifications. **07**
(b) Draw neat sketch of Welding Electrodes and describe its specification method. **07**
OR
- Q.3** (a) Describe OCV and CCV with neat sketch. **07**
(b) Describe AWS coding and specification method of Welding Electrode. **07**
- Q.4** (a) Draw neat sketch of SMAW and describe its Principle. **07**
(b) Draw neat sketches of any SEVEN Welding Joints with their Symbols. **07**
OR
- Q. 4** (a) Draw neat sketch of SAW and describe its Process. **07**
(b) Draw neat sketches of any SEVEN Welding Defects and State their causes and remedies. **07**
- Q.5** (a) Draw neat sketch of ESW and describe its Process. **07**
(b) Explain Scope of ASME Code in Welding Process. **07**
OR
- Q.5** (a) Describe Overlay Welding with neat sketch. **07**
(b) Explain scope of WPS, WPQ and PQR for coded Fabrication. **07**
