

GUJARAT TECHNOLOGICAL UNIVERSITY
B. E. - SEMESTER – VI • EXAMINATION – WINTER 2012

Subject code: 162502**Date: 03/01/2013****Subject Name: Welding Technology****Time: 02.30 pm - 05.00 pm****Total Marks: 70****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Write a short note on Pre and Post weld heat treatment process. **07**
(b) Write a short note on HAZ. **07**
- Q.2** (a) Explain coding and classification of mild steel and alloy steel electrodes as per Indian and American system. **07**
(b) Define welding .Classify the welding processes as per AWS. **07**
OR
(b) Compare welding with riveting and casting process. **07**
- Q.3** (a) Explain Oxy Acetylene gas welding process with neat sketch. **07**
(b) Explain TIG welding process with neat sketch. **07**
OR
- Q.3** (a) Explain Submerged Arc welding process with suitable case study. **07**
(b) Explain Gas welding techniques with necessary sketch **07**
- Q.4** (a) Compare Electro slag and Electro gas welding process with neat sketch. **07**
(b) Write a brief note on Thermit welding process with neat sketch. **07**
OR
- Q.4** (a) List down the variables of Resistance welding process and explain steps of spot welding process with neat sketch. **07**
(b) Write a short note on Plasma Arc welding process with neat sketch. **07**
- Q.5** (a) Explain welding defects with their causes and remedies. **07**
(b) Compare Friction and Forged welding process. **07**
OR
- Q.5** (a) Write a short note on various NDT process. **07**
(b) Explain Atomic Hydrogen welding process with neat sketch. **07**
