

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI • EXAMINATION – WINTER • 2014****Subject Code: 162502****Date: 28-11-2014****Subject Name: Welding Technology****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.

- Q.1** (a) Explain the Classification of Welding Processes. **07**
(b) Write the Comparison between Welding Processes with Riveting Process. **07**
- Q.2** (a) Explain different types of Gas Welding Flames with neat Sketch. **07**
(b) Explain the Right Word and Left Word Gas Techniques with neat Sketch. **07**
- OR**
- (b) Brief Explain the various types of Gas Welding. **07**
- Q.3** (a) Write Short Note on Flux Shielding Metal Arc Welding (FSMAW) Process with Neat Sketch. **07**
(b) Write Short Note on Submerged Arc Welding Process with neat sketch. **07**
- OR**
- Q.3** (a) Write Short Note on Tungsten Inert Gas Welding Process with neat sketch. **07**
(b) Write Short Note on Plasma Arc Welding Process with neat sketch. **07**
- Q.4** (a) Explain Spot Welding Process with neat sketch. **07**
(b) Explain Thermit Welding Process with neat sketch. **07**
- OR**
- Q.4** (a) Explain Seam Welding Process with neat sketch. **07**
(b) Explain Atomic Hydrogen Welding Process with neat sketch. **07**
- Q.5** (a) Enlist the various types of defects in welding. Briefly explain any three of them with neat sketch. **07**
(b) Enlist the various types of Non destructive Test (NDT). Explain any one with neat sketch. **07**
- OR**
- Q.5** (a) Explain the term “Heat Affected Zone (HAZ)”. Explain the various types of Electrodes. Draw any three symbol of Welding with name. **07**
(b) Explain Why Pre- Weld Heat Treatment and Post Welding Heat Treatment carried out? **07**
