

GUJARAT TECHNOLOGICAL UNIVERSITY**Diploma Engineering - SEMESTER-IV • EXAMINATION – SUMMER • 2014****Subject Code: 3345504****Date: 31-05-2014****Subject Name: Welding Technology-II****Time: 10:30 am - 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. English version is considered to be Authentic.**

- Q.1** (a) Describe Principle of GTAW process with neat sketch. **07**
(b) Describe Working of GMAW torch with neat sketch. **07**
- Q.2** (a) Explain working of CO2 welding Equipment with neat sketch. **07**
(b) State advantages, limitations and applications of GTAW. **07**
OR
(b) State advantages, limitations and applications of GMAW. **07**
- Q.3** (a) Draw neat sketch and Explain functions of flux cored wire. **07**
(b) Describe Principle of ESW with neat sketch. **07**
OR
- Q.3** (a) State advantages, limitations and applications of Stud Welding. **07**
(b) Describe principle of FCAW with neat sketch. **07**
- Q.4** (a) Describe Principle of PAW with neat sketch. **07**
(b) Describe Ultrasonic Welding with neat sketch. **07**
OR
- Q. 4** (a) Describe Atomic Hydrogen Welding with neat sketch. **07**
(b) Describe EBW with neat sketch. **07**
- Q.5** (a) List Causes and Remedies of SEVEN common weld defects. **07**
(b) Describe LBW with neat sketch. **07**
OR
- Q.5** (a) Draw sample WPS format and explain meaning of its detail. **07**
(b) Write and describe content of ASME section-IX. **07**
