

GUJARAT TECHNOLOGICAL UNIVERSITY**Diploma Engineering - SEMESTER-IV • EXAMINATION – WINTER • 2014****Subject Code: 3345504****Date: 04-12-2014****Subject Name: Welding Technology - II****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.

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|-------------|-----|---|-----------|
| Q.1 | (a) | Draw neat sketch of GTAW Process. State different parameters of GTAW. | 07 |
| | (b) | State advantages, limitations and applications of GTAW. | 07 |
| Q.2 | (a) | Draw neat sketch and Explain working of GMAW Process. | 07 |
| | (b) | Draw neat sketch of Wire feed Mechanism of GMAW Process. | 07 |
| | | OR | |
| | (b) | State advantages, limitations and applications of GMAW. | 07 |
| Q.3 | (a) | Draw neat sketch and Explain CO2 Welding Process. | 07 |
| | (b) | Describe Principle of ESW with neat sketch. | 07 |
| | | OR | |
| Q.3 | (a) | State advantages, limitations and applications of PAW. | 07 |
| | (b) | Describe principle of FCAW with neat sketch. | 07 |
| Q.4 | (a) | Describe Principle of Stud Welding Process with neat sketch. | 07 |
| | (b) | Draw neat sketch of Ultrasonic Welding. Explain its working. | 07 |
| | | OR | |
| Q. 4 | (a) | Draw neat sketch Atomic Hydrogen Welding. Explain its working. | 07 |
| | (b) | Describe EBW with neat sketch. State its advantages and disadvantages. | 07 |
| Q.5 | (a) | Prepare List of SEVEN common weld defects. State its Causes and Remedies. | 07 |
| | (b) | Describe LBW with neat sketch. State its advantages and disadvantages. | 07 |
| | | OR | |
| Q.5 | (a) | Write Index of ASME section-IX. State applications of ASME. | 07 |
| | (b) | Draw WPS format. Describe meaning of its detail. | 07 |
