

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA ENGINEERING - SEMESTER-IV • EXAMINATION – WINTER - 2016

Subject Code: 3345504

Date: 24- 11-2016

Subject Name: Welding Technology-II

Time: 02:30 PM TO 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.
 4. Each question carry equal marks (14 marks)
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|------------|---|-----------|
| Q.1 | (a) Draw neat sketch and Explain working of GTAW Process. | 07 |
| | (b) Describe Equipment of GMAW process with neat sketch. | 07 |
| Q.2 | (a) State Advantages, Disadvantages & Application of CO2 welding with neat sketch. | 07 |
| | (b) Draw neat sketch of Wire feed Mechanism of GMAW Process. | 07 |
| | OR | |
| | (b) Describe Working of GMAW torch with neat sketch. | 07 |
| Q.3 | (a) Define term “FCAW”. Describe Principle of Operation FCAW with neat sketch. | 07 |
| | (b) Describe Conventional Electro Slag Welding with neat sketch. | 07 |
| | OR | |
| Q.3 | (a) Draw neat sketch and Explain functions of flux cored wire. | 07 |
| | (b) Describe Consumable Guide Electro Slag Welding With neat sketch. | 07 |
| Q.4 | (a) Describe Principle of Operation of PAW with neat sketch. | 07 |
| | (b) Describe LBW Process with neat sketch. | 07 |
| | OR | |
| Q.4 | (a) Describe EBW Process with neat sketch. | 07 |
| | (b) Describe Atomic Hydrogen Welding. Explain its working. | 07 |
| Q.5 | (a) Draw neat sketch of Ultrasonic Welding. Explain its working. | 07 |
| | (b) Draw WPS format. Describe meaning of its detail. | 07 |
| | OR | |
| Q.5 | (a) Write Index of ASME section-IX. State applications of ASME. | 07 |
| | (b) Describe ANY SEVEN common weld defects. State its Causes and Remedies with neat sketch. | 07 |
