

Seat No.: _____

Enrolment No.: _____

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA ENGINEERING – SEMESTER – IV EXAMINATION – WINTER - 2017

Subject Code: 3345504

Date: 13 -11-2017

Subject Name: Welding Technology-II

Time: 02:30 PM TO 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. Each question carry equal marks (14 marks)

- Q.1** (a) Describe GTAW principle with neat sketch. **07**
(b) List out advantages disadvantages and application of GTAW process. **07**
- Q.2** (a) Describe GMAW Principle of operation with neat sketch. **07**
(b) List out function of flux and shielding gas in welding process. **07**
- OR**
- (b) List out advantages disadvantages and application of GMAW process **07**
- Q.3** (a) Draw set up of Welding Procedure of MAG welding. (5 Marks) **07**
List out the ways to identify MAG welding in workshop. (2 Marks)
(b) Describe the Principle of Operation of FCAW process with neat sketch. **07**
- OR**
- Q.3** (a) List out the equipments used in GTAW process. **07**
Describe the use of equipments.
(b) List out the advantage, Limitation & Application of FCAW process. **07**
- Q.4** (a) Describe the Principle of Operation of Conventional Electro Slag Welding with neat sketch. **07**
(b) Describe LASER BEAM WELDING process. **07**
- OR**
- Q.4** (a) Compare Non-transferred Arc Process and Transferred Arc Process with neat sketch. **07**
(b) Compare PAW and TIG Welding with neat sketch. **07**
- Q.5** (a) List out Steps involved in stud welding. **07**
(b) Describe principle of Ultrasonic Welding with neat sketch. **07**
- OR**
- Q.5** (a) List out Causes and remedies of Common weld Defects at least for five defects. **07**
(b) Describe importance of ASME Sec-IX. **07**
List out the essential non essential and supplementary essential variables.
