

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma Engineering - SEMESTER-IV • EXAMINATION – SUMMER • 2015

Subject Code: 345504

Date: 12-05-2015

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 GTAW process with neat sketch. State its advantages. **07**
(b) Describe METAL TRANSFER theory with neat sketch. **07**
- Q.2** (a) Describe PAW process with neat sketch. State its advantages. **07**
(b) State advantages, limitations and applications of PAW. **07**
- OR
- (b) State advantages, limitations and applications of GMAW. **07**
- Q.3** (a) Describe FCAW process with neat sketch. State its advantages. **07**
(b) Draw neat sketch of LBW process. State its applications. **07**
- OR
- Q.3** (a) Draw neat sketch of CO₂ Welding Process. State its applications. **07**
(b) Describe Ultrasonic welding process with neat sketch. **07**
- Q.4** (a) Draw neat sketch of EBW process. State its applications. **07**
(b) State SEVEN welding defects. Draw its neat sketches. State its Causes and Remedies. **07**
- OR
- Q. 4** (a) Give names of FIVE types of welding distortion. State its causes and remedies **07**
(b) Draw neat sketch of Under water welding process. State it's applications. **07**
- Q.5** (a) Describe importance of WPS, WPQ and PQR in quality welding. **07**
(b) Describe meaning of F, P and A numbers for WPS with suitable example. **07**
- OR
- Q.5** (a) Draw neat sketch of Mechanized welding. State its benefits. **07**
(b) State and explain safety rules observed in welding shop. **07**
