Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma Engineering - SEMESTER–IV • EXAMINATION – SUMMER 2013

Subject Code: 345504 **Date: 10-06-2013**

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)	Define the term "WELDING". Explain GTAW operation with neat sketch.	**07**
	(b)	State meaning of "PAW". Explain procedure of PAW with neat sketch.	**07**
Q.2	(a)	State advantages, limitations and applications of GTAW.	**07**
	(b)	State meaning of "METAL TRANSFER" with neat sketch.	**07**
		OR	
	(b)	State advantages, limitations and applications of GMAW.	**07**
Q.3	(a)	Give definition and explain concept of FCAW with neat sketch.	**07**
	(b)	Write brief note on LBW with neat sketch.	**07**
		OR	
Q.3	(a)	State advantages, limitations and applications of FCAW.	**07**
	(b)	Write brief note on Ultrasonic welding with neat sketch.	**07**
Q.4	(a)	Explain operation of EBW with neat sketch.	**07**
	(b)	Prepare table showing Sketch, Causes and Remedies of any SEVEN weld defects.	**07**
		OR	
Q. 4	(a)	Explain causes and remedies of any FIVE types of welding distortion.	**07**
	(b)	Write brief note on Under water welding with neat sketch.	**07**
Q.5	(a)	State and explain importance of WPS, WPQ and PQR in quality welding.	**07**
	(b)	State meaning of F,P and A numbers for WPS giving examples.	**07**
		OR	
Q.5	(a)	Explain meaning of Mechanized welding with sketch and state its application.	**07**
	(b)	State and explain safety rules observed in welding shop.	**07**

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