GUJARAT TECHNOLOGICAL UNIVERSITY

	I	Diploma Engineering - SEMESTER-III • EXAMINATI	ON – SUMMER • 201	4
Subject Code: 3335504 Date: 19-			Date: 19-06-2014	Į.
Subject Name: Welding Technology-I		Total Marks: 70	Marks: 70	
		 Attempt an questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. English version is considered to be Authentic. 		
Q.1	(a) (b)	Describe meaning and Classify "Welding Process". Explain Advantages and Limitations of Welding Process		
Q.2	(a)	Describe SEVEN types of Weld Joints with neat sketches		07
	(b)	Draw typical Welding Rectifier and Describe its Specific OR	eations.	07
	(b)	Draw typical Welding Transformer and Describe its Spec	cifications.	07
Q.3	(a)	Describe OCV, CCV, Duty Cycle and Current Rating.		07
	(b)	Describe coding and specification method of Welding Electrode with example OR		07
		Draw neat sketch of Inverter type Welding Equipment an Specifications.	g Equipment and write its 07	
	(b)	Give Classification of Welding Electrodes and describe i	ts Selection criteria.	07
Q.4	(a)	Describe Arc Physics with neat sketch.	07	
	(b)	Describe Arc blow and Arc Stability with neat sketches. OR		07
Q. 4	(a) (b)	Describe principle of SMAW with neat sketch. Draw neat sketches of any FIVE Welding Position and State their features		07 07
Q.5	(a) (b)	Describe principle of SAW with neat sketch. Explain Scope of ASME Welding Codes in Fabrication Industries.		07 07
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Q.5	(a) (b)	State advantages, disadvantages and application of SAW. Describe need of WPS, WPQ and PQR for coded Fabrication.		07 07
