Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE - SEMESTER-VI (OLD) - EXAMINATION - SUMMER 2017

<b>U</b>			ate: 12/05/2017	
T	ime: 1 structi 1 2	t Name: Welding Technology  10:30 AM to 01:00 PM  Total Matons:  Attempt all questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.	orks: 70	
Q.1	(a) (b)	Write Welding definition, applications, advantages, disadvantages. Classify welding processes in detail	07 07	
Q.2	(a) (b)	Write short note on Manual metal arc welding.  How electrode selection is done explain in detail with different steps.  OR	07 07	
	<b>(b)</b>	Explain and draw groove and fillet weld bead.	07	
Q.3	(a) (b)	Write short note various power source in welding. Compare soldering, brazing and braze welding in detail.  OR	07 07	
Q.3	(a) (b)	Write short note on oxy-acetylene and oxy-hydrogen gas welding.  Draw and explain different gas welding techniques.	07 07	
Q.4	(a) (b)	Write in context of following for submerged arc welding. Introduction, Principle, Working, Specifications, Equipments, Merits and Demerits, applications. Write in context of following for TIG welding. Introduction, Principle, Working, Specifications, Equipments, Merits and Demerits, applications.	07 07	
<b>.</b> .		OR	0=	
Q.4	(a) (b)	Explain CO <sub>2</sub> welding with neat sketch. How electro gas welding different then electro slag welding?	07 07	
Q.5	(a) (b)	Write different resistance welding processes and explain any one of them. Write application of various solid state and thermo chemical welding proces  OR	ses. <b>07</b>	
Q.5	(a)	Write short note weld defect and tests.	07	
	<b>(b)</b>	Explain weld joints and metallurgy.	07	

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