Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI • EXAMINATION – SUMMER • 2015

Subject Code: 162502		Code: 162502 Date:04/05/20	Date:04/05/2015	
Su	bject	Name: WELDING TECHNOLOGY		
Time: 10.30am-01.00pm Instructions:		<u>-</u>	Total Marks: 70	
		Attempt all questions. Make suitable assumptions wherever necessary.		
Q.1	(a) (b)	Define welding. Write classification of welding process. Give practical application of welding. Enlist and explain various gas welding equipments.	07 07	
Q.2	(a) (b)	Discuss Oxy-Acetylene welding process with advantages and disadvantages. Discuss Flux shielded metal arc welding process. OR	07 07	
	(b)	Explain gas metal arc welding process.	07	
Q.3	(a) (b)	Explain electro slag welding process with neat sketch. Discuss plasma arc welding process in detail. OR	07 07	
Q.3	(a) (b)	Discuss spot welding with advantages and disadvantages. Explain Flash butt welding process in detail.	07 07	
Q.4	(a) (b)	Discuss Diffusion (Bonding) welding process. Explain Explosive welding process. OR	07 07	
Q.4	(a) (b)	Explain Thermit welding process. Discuss Atomic hydrogen welding process with advantages and disadvantages.		
Q.5	(a) (b)	Enlist type of defects in weldments. Discuss its causes and remedies. Discuss ingredients of coating and their functions in electrode. OR		
Q.5	(a) (b)	Discuss various types of weld joints and weld symbols. Explain Heat affected zone and its properties in welding.	07 07	
