GUJARAT TECHNOLOGICAL UNIVERSITY B. E. - SEMESTER – VI • EXAMINATION – WINTER 2012

Subject code: 162502 Date: 03/0			1/2013	
Time	Subject Name: Welding Technology Time: 02.30 pm - 05.00 pm Total Marks Instructions:		: 70	
msu	1. 2.	Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1		Write a short note on Pre and Post weld heat treatment process. Write a short note on HAZ.	07 07	
Q.2	(a)	Explain coding and classification of mild steel and alloy steel electrodes as per Indian and American system.	07	
	(b)		07	
	(b)	Compare welding with riveting and casting process.	07	
Q.3	(a) (b)	Explain Oxy Acetylene gas welding process with neat sketch. Explain TIG welding process with neat sketch. OR	07 07	
Q.3	(a) (b)	Explain Submerged Arc welding process with suitable case study. Explain Gas welding techniques with necessary sketch	07 07	
Q.4	(a)	Compare Electro slag and Electro gas welding process with neat sketch.	07	
	(b)	Write a brief note on Thermit welding process with neat sketch. OR	07	
Q.4	(a)	List down the variables of Resistance welding process and explain steps of spot welding process with neat sketch.	07	
	(b)	Write a short note on Plasma Arc welding process with neat sketch.	07	
Q.5	(a) (b)	Explain welding defects with their causes and remedies. Compare Friction and Forged welding process. OR	07 07	
Q.5	(a) (b)	Write a short note on various NDT process. Explain Atomic Hydrogen welding process with neat sketch.	07 07	
