Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

Date:17/12/ 2015

BE - SEMESTER - VI EXAMINATION - WINTER 2015

Subject Code:162502

Su	bject	Name: Welding Technology	
Time: 2:30pm to 5:00pm Total Marks: 70 Instructions:			
Inst	1.	Attempt all questions. Make suitable assumptions wherever necessary.	
Q.1	(a)	Explain the need and method of Pre and post weld heat treatment in welding products.	07
	(b)	Classification and Coding of mild steel and low alloy steel electrodes as per Indian and American System.	07
Q.2	(a) (b)	Write a short note on Heat affected zone and its properties. Write a short note on submerged arc welding process. OR	07 07
	(b)	Write a short note on plasma arc welding process.	07
Q.3	(a) (b)	Write a short note on welding flames with neat sketch. Compare TIG and MIG welding process with neat sketch. OR	07 07
Q.3	(a) (b)	List and explain various gas welding techniques in brief. Compare Electroslag and Electrogas welding process with neat sketch.	07 07
Q.4	(a) (b)	Write a short note on friction welding process. Explain the principle and working of Solid state welding process. OR	07 07
Q.4	(a) (b)	Write a short note on Thermit welding process. Explain the principle and working of Resistance welding process	07 07
Q.5	(a) (b)	Classification of various welding processes. Write a short note on Projection welding process. OR	07 07
Q.5	(a) (b)	Comparison of welding process with other manufacturing processes. List the various types of defects in weldments, causes and remedies of these defects with neat sketch.	07 07
