GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-VI • EXAMINATION – SUMMER • 2014

Subject Code: 162502Date: 21-05-2014Subject Name: Welding TechnologyTime: 10:30 am - 01:00 pmTime: 10:30 am - 01:00 pmTotal Marks: 70Instructions:Total Marks: 70			
	1.	Attempt all questions. Make suitable assumptions wherever necessary.	
Q.1	(a) (b)	Define Welding Process. Classify the welding Processes with Advantages and disadvantages. Discuss working principle of arc welding with neat sketch.	07 07
Q.2	(b) (a) (b)	Explain types of flames of gas welding with neat sketch Define terminology of weld joints and types of joints. OR	07 07 07
	(b)	Explain Sub Merged Arc Welding with neat sketch.	07
Q.3	(a)	Explain the Spot Welding with neat sketch and merits, demerits and application.	07
	(b)	Explain any one thermo chemical welding process with neat sketch. OR	07
Q.3	(a) (b)	Explain type of welding defects its causes and remedies Explain any one solid state welding process with neat sketch.	07 07
Q.4	(a)	Explain the process of Plasma Arc Welding Process with its merits and demerits	07
	(b)	Explain the process of Upset welding process. OR	07
Q.4	(a) (b)	Write short note on source of power supply of welding processes. Differentiate TIG and MIG welding.	07 07
Q.5	(a) (b)	Explain the Ingredients of coating and their functions Explain the process of selection of electrodes. OR	07 07
Q.5	(a)	Discuss hydrostatic pressure testing and hydraulic pressure testing for leakage of weld joint.	07
	(b)	What are the functions of flux and filler material at different welding processes?	07
