Seat No.:	Enrolment No.
Seat No.:	Enrolment No

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE - SEMESTER - VI (NEW).EXAMINATION - WINTER 2016** 

Subject Code: 2162506 Subject Name: Metal Joining Technology			Date: 22/10/2016	
1	[ime		otal Marks: 70	
Q.1	(a) (b)	With neat sketch explain types of flames of gas welding. Define: Welding and give their classification.		07 07
Q.2	(a) (b)	With neat sketches define terminology of weld joints and type Discuss working principle of arc welding with neat figure.  OR	s of joints.	07 07
(	<b>(b)</b>	Explain Ultrasonic inspection test for weld joint.		07
Q.3	(a) (b)	Give comparison between spot and seam welding. With neat sketch discuss thermit welding process.  OR		07 07
Q.3	(a) (b)	Describe sub merged arc welding.  Discuss different welding defects with their causes and remedies.		07 07
Q.4	(a) (b)	What are the selection factors for arc welding electrodes?  Differentiate between soldering and brazing.  OR		07 07
Q.4	(a) (b)	With neat sketch discuss thermit welding process.  Discuss different welding defects with their causes and remed	ies	07 07
Q.5	(a)	What are the functions of flux and filler material at different we Processes?	velding	07
	<b>(b)</b>	List out the gas welding equipments and give their unique funexplain different gas welding techniques.  OR	ctions and	07
Q.5	(a)	Explain mechanism of Cold welding and Diffusion welding.		07
	<b>(b)</b>	Discuss hydrostatic pressure testing and hydraulic pressure testleakage of weld joint.	sting for	07

\*\*\*\*\*\*