

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (NEW) EXAMINATION - WINTER 2018

Subject Code:2162506 Date:16			/11/2018	
Subj	ect I	Name:Metal Joining Technology		
Time: 02:30 PM TO 05:00 PM Total Ma			arks: 70	
Instru				
		Attempt all questions. Make suitable assumptions wherever necessary.		
		Figures to the right indicate full marks.		
			MARKS	
Q.1	(a)	Define "Welding Process"	03	
V. -	(b)	_	04	
	(c)		07	
Q.2	(a)	Define Gas Welding processes	03	
	(b)	Enlist different types of flames produced by gas welding.	04	
	(c)	Explain rightward and leftward technique with neat sketch. OR	07	
	(c)	Explain various equipment used in gas welding.	07	
Q.3	(a)	Define Arc Welding Process	03	
	(b)	Explain Direct current straight polarity (DCSP) and Direct current Reverse polarity (DCRP).	04	
	(c)	Explain the Tungsten Inert gas welding with neat sketch, advantages,	07	
		limitations and applications.		
Q.3	(a)	OR Define Submerged Arc Welding (SAW)	03	
Ų.S	(a) (b)		03 04	
	(\mathbf{c})		07	
Q.4	(a)		03	
Q	(b)		04	
	(c)	_	07	
	(-)	and applications.		
		OR		
Q.4		Explain the limitation of Carbon Arc welding	03	
	(b)		04	
	(c)	Explain Seam Welding process with neat sketch, advantages, limitations and applications.	07	
Q.5	(a)	Enlist different types of solid- state welding processes.	03	
	(b)		04	
	(c)		07	
		applications.		
0.5		OR	02	
Q.5	(a)	Difference between destructive and non-destructive testing	03	

(c) Enlist different types of NDT explain any one of them with neat sketch.

(b) Explain Post welding processes.

04

07