Q.P. Code: 16ME338								R1	R16			
r	Reg. No:											
SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS) B.Tech IV Year II Semester Regular & Supplementary Examinations July 2021												
ADVANCED WELDING PROCESSES												
,	(Mechanical Engineering)									Mox Morkey 60		
Time: 3 hours									Max. Marks: 60			
(Answer all Five Units $5 \times 12 = 60$ Marks) UNIT-I												
1	a How do yo		• •								L2	6M
	b What is the	e common f	uel gases	used in t	-		ng pro	ocess?	P Describ	e	L1	6M
2	a Explain th medium al	-	e for coc	ling the	OF		SM	AW/N	MMAW	of low and	L1	6M
	b Explain the meanings of E55RB2L23Fe as per BIS specification for SMAW.									L3	6M	
3	a With neat	sketch expla	ain plasm	a arc wel	lding p	rocess.					L2	6M
	b Discuss ab	out shieldin	ig gases u	sed in G	TAW : OF		effec	ts on v	weld bead	d shape.	L2	6 M
4	a Explain the	e addition o	f filler me	etal in TI	G wel	ding.					L2	6M
	b What are the metals that can be welded by TIG and give the area of application?									cation?	L2	6M
5	a With neat sketch explain joint designs in friction welding.								L2	6M		
	b Give the applications of friction welding process. OR										L3	6M
6	a Write shor	t note on pr	ocess var	iables of	ultrase	onic we	lding	5.			L2	6M
	b What are the	he advantag	es, disadv		and ap UNIT		ons o	f ultra	isonic we	elding?	L1	6M
7	a Describe th	ne process o	f explosio	on weldi	ng and	explai	n its j	princi	ple of op	eration.	L1	6M
	b What are the	he elements	used in e	xplosive	weldi	ng? Wi	rite sh	nort no	ote of it.		L1	6M
					OF	2						
8	Define adhes notes of joint						s. Wi	th nea	at sketch	write short	: L1	12M
					UNIT							
9	Describe with	n a neat sket	ch the co	nstructio	nal fea OF		f an e	electro	on beam g	gun.	L2	12M
10	a Describe th							ch.			L2	6M
	b Discuss the	e process va	riables in	LASER	beam	weldin	ıg.				L2	6M

*** END ***

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