

Reg.	No:													
	SIDDH	IARTI	H INS	TITU	TE O	F EN	GINE	ERIN	G & 7	ГЕСН	INOL	OGY:: P	UTTUR	
		B.Tecl	h IV Y	/ear Il	[Sem	(AU ester]	r On C Regul	ar Exa	amina	tions	Septe	mber 202	20	
	-			AD	VAN	CED V	VELL	DING	PROC	ESSE	S		•	
					(M	lechan	ical E	nginee	ering)					
Time:	3 hours											Max. N	Marks: 60)
				(4	Answe	er all F	ive U U	nits 5 NIT-I	x 12 =	60 M	arks)			
1	a How can you classify welding process?													6M
	b Draw the Oxy-Acetylene welding setup and equipment. Discuss the importance of it. 6 N OR													
2	Explai applica	n oxy ations.	-fuel	gas ci	itting	with	neat	sketch	of g	as cut	ting t	orch and	give the	2 12M
							UN	II-TI						
3	a What	t are the	e types	s of flu	xes an	d their	comp	oundi	ng?					6M
	b Draw the TIG welding setup and discuss the process.													
4	D'	ъл	C 1	1.		1		OR	. 1	1				
4	a Discuss MIG welding setup and process with neat sketch.													6M 6M
	U UIVC	the are	a or aj	pheat	ion an	u auva				ung.				UIVI
5	a Expl	ain the	genera	al char	acteris	tics of	a tran	sforme	er.					6M
U	b What are the different methods of controlling current in a welding transformer?													
								C			U			
6	a With	suitab	le diag	ram ex	xplain	the ult	rasoni	c weld	ing pr	ocess.				8M
	b Give the applications of friction welding process.													
7	a Expla	ain the	proces	ss varia	ables a	nd its	effects	s in ex	_ plosive	e weld	ing.			6M
	b Give	the ad	vantag	es and	disady	vantag	es of e	explosi	ve we	lding.	U			6M
								OR						
8	a Defin	ne adhe	esive b	onding	g and n	ature	of adh	esive j	oints.	With r	leat sk	etch		4M
	b Describe the basic principle of resistance welding. UNIT-V													8M
9	a Desc	ribe the	e brazi	ng pro	cess a	nd exp	lain th	ne step	s used	in bra	zed jo	int.		8M
	b What are the applications of soldering process?													4M
10	o What	t ara th	a diffa	ront tr	nos of	VOOUU	m eve	UK	T EDV	N9 E	nlain +	ha ayatam	S	<u> </u>
10	h Desc	ribe the	e LAS	ER he	im we	vacuu Idino r	nn sys	s with	л EDV neat sl	cetch	piani l	ne system	5.	6M
		1100 110						5 miul	11000 51					UNI

*** END ***