## 17455

1	611	/											
3	Ho	ours /	100	) M	arks	Seat	No.						
	Instru	uctions –	(1)	All (	Questions	are Comp	oulsor	y.					
			(2)	Answ	er each	next main	Que	stion	on	a ne	ew :	pag	e.
			(3)	Illusti neces	•	answer v	vith n	eat s	sketo	ches	who	erev	/er
			(4)	Figur	es to the	right ind	icate	full	mar	ks.			
			(5)	Comr		, Pager ar n devices Hall.							
												]	Marks
1.		Attempt	any	FIVE	E of the	following	•						20
	a)	State and sketch the types of welding joints. (any four)											
	b)	State an welding.	y fou	ır fac	tors affe	cting sele	cting	of p	owo	er so	ourc	e f	for
	c)	State the	mea	ning o	of weldab	oility and	give t	he fa	ctor	s aff	ecti	ing	it.
	d)	Give ren	nedial	proc	edure for	any four	weld	ling	defe	cts.			
	e)	Explain	Induc	tion b	razing.								
	f)	State the	adva	antage	s of gas	welding.							
	g)	List the one mos		-		used for v	weldin	ng of	C.I	. and	l su	ıgge	est
	h)	Define A	Arc st	ability	and Ar	re blow.							
2.		Attempt	any	<b>FOU</b>	R of the	following	<b>g:</b>						16
	a)	State the	nece	essity	of filler	metal.							
	b)	State any	y dra	w dif	ferent po	sitions of	weldi	ng.					

c) Draw and explain V-I characteristics of Arc.

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		Ma	rks
	d)	Write down the purpose of heat treatment used in welding.	
	e)	State any four limitations of brazing.	
	f)	Describe TIG welding employed for Aluminium.	
3.		Attempt any TWO of the following:	16
	a)	List and explain the gas welding equipment.	
	b)	Compare brazing, soldering and welding.	
	c)	List the different processer used for welding of mild steel. Explain MIG welding.	
4.		Attempt any <b>FOUR</b> of the following:	16
	a)	Draw and explain leftward technique of welding.	
	b)	State the principle of brazing.	
	c)	State the effect of welding on the properties of metal.	
	d)	How the care and storage of electrode is taking place? Explain in brief.	
	e)	Explain torch brazing process.	
	f)	Explain furnace brazing process.	
5.		Attempt any TWO of the following:	16
	a)	State and explain the metal transfer mechanism in Arc welding.	
	b)	List the different processes used for welding of stainless steel and explain oxy acetylene welding.	
	c)	Draw and explain HAZ.	
6.		Attempt any TWO of the following:	16
	a)	List any four welding defects and state the causes of it.	
	b)	Describe the process of solidification of metal in welding.	
	c)	State the different systems of coding used for electrode and explain indian coding system.	