17455

2131 3 H	urs / 100 Marks Seat No.	
Instr	ctions – (1) All Questions are Compulsory.	
	(2) Answer each next main Question on a	new page.
	(3) Illustrate your answers with neat sketch necessary.	es wherever
	(4) Figures to the right indicate full marks.	
	(5) Assume suitable data, if necessary.	
	(6) Use of Non-programmable Electronic Po Calculator is permissible.	ocket
	(7) Mobile Phone, Pager and any other Ele Communication devices are not permissi Examination Hall.	
		Marks
1.	Attempt any <u>FIVE</u> of the following:	20
a)		20
	List and draw any four types of points used in weld	
b)	List and draw any four types of points used in weld State any four factors which affects the selection of p sources.	ing.
	State any four factors which affects the selection of j	ing. power
	State any four factors which affects the selection of p sources.	ing. power g it.
c)	State any four factors which affects the selection of p sources. Define weld ability and state any two factors affectin State any four welding defects and also state remedie	ing. power g it.
c) d)	State any four factors which affects the selection of p sources. Define weld ability and state any two factors affectin State any four welding defects and also state remedie this defects.	ing. power g it. s for

2.		Attempt any FOUR of the following:	16
	a)	State the types of gas welding flames and explain any one.	
	b)	What is arc stability?	
	c)	State any four limitations of brazing.	
	d)	State the types of heat treatment used in welding.	
	e)	Differentiate between soldering and welding.	
	f)	State any two advantages and limitations of gas welding.	
3.		Attempt any <u>TWO</u> of the following:	16
	a)	Explain with neat sketch oxy acetylene welding.	
	b)	Explain arc structure with a neat sketch.	
	c)	State the types of welding methods used for mild steel and explain any one method.	
4.		Attempt any TWO of the following:	16
	a)	State the types of metal transfer mechanism and explain any one with neat sketch.	
	b)	What are the processes used for welding of stainless steel? Explain any one.	
	c)	State any four welding defects and give causes of each of the defect.	

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5. Attempt any FOUR of the following: State the effects of welding on the properties of metals. a) Compare brazing and soldering (any four points). b) Explain functions of the filler metals used in brazing. c) How welding of aluminium is done? d) Draw and explain any two positions of welding. e) What kind of care is required for storage of electrodes? f) State the different types of welding equipment used in gas **g**) welding. 6. Attempt any TWO of the following: 16 Explain the process of solidification in welding. a) Draw and explain HAZ. b)

Give the limitations and applications of soldering. c)

16

3 Hours / 100 Marks