

Eighth Semester B.E. Degree Examination, June/July 2019 Welding Technology

Time: 3 hrs.

Max. Marks:100

Note: Answer FIVE full questions, selecting atleast TWO questions from each part.

PART - A

		PART – A	
1	a. b.	Define welding. Give the comparison of welding with casting and riveting. Describe the difference between right forward and left forward technique in weld	
			(08 Marks)
	C.	Explain the safety parameter in Oxy acetylene welding.	(06 Marks)
2	a.	Explain the following:	
		i) Arc striking and maintaining	
		ii) Voltage and current	
		iii) Arc stability and arc blow.	(12 Marks)
	b.	Explain the types of power supplies. List their advantage and limitations.	(08 Marks)
3	a.	With neat sketch explain MIG welding process.	(08 Marks)
	b.	Explain electroslag welding with neat sketch.	(06 Marks)
	c.	Explain electrode coating with classification.	(06 Marks)
4	a.	With neat sketch explain projection welding. List their advantages.	(08 Marks)
	b.	Explain flash butt welding along with its applications.	(08 Marks)
	c.	List the advantage and applications of resistance welding.	(04 Marks)
		PART – B	
5	0	Explain Friction welding process.	(06 Marks)
3	a. b.	With net sketch explain Oxy-acetylene flame cutting.	(08 Marks)
		Explain welding defects with their causes and remedies.	(06 Marks)
	C.	Explain weiging defects with their causes and remedies.	(00 Marks)
6	0	Explain the following:	
6	a.	i) Grain size control	
			(12 Marks)
	h	iii) Corrosion control.	(12 Marks) (08 Marks)
	b.	With neat sketch explain HAZ.	(00 Marks)
7	0	Explain Commo roy radiography inspection	(08 Marks)
7	a.	Explain Gamma – ray radiography inspection. Describe the significance of conducting tensile test.	(06 Marks)
	b.		(06 Marks)
	C.	With neat sketch explain X – ray inspection method.	(oo marks)
0		Cive the comparison of welding soldering and brazing	(12 Marks)
8	a.	Give the comparison of welding soldering and brazing.	(12 marks)
	b.		
		i) Welding of plastics	(08 Marks)
		ii) Welding of plastics.	(UU Maiks)

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