Q.P. Code: 18ME0340



Reg. No:

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)

B.Tech IV Year I Semester Regular Examinations February-2022 ADVANCED WELDING PROCESS

		(Mechanical Engineering)		
	, , , , , , , , , , , , , , , , , , ,		Marks: 60	
		PART-A		
(Answer all the Questions $5 \times 2 = 10$ Marks)				
1	a	Explain Gas Welding process.	L1	2M
	b	What is meant by Arc Welding Process	L1	2M
	c	What is the application of Ultrasonic welding	L1	2M
	d	Define the Seam welding	L2	2M
	e	Define the Brazing	L2	2M
		<u>PART-B</u>		
(Answer all Five Units 5 x $10 = 50$ Marks)				
		UNIT-I		
2	a	What are the gas welding techniques?	L1	5M
	b	Give the applications of gas welding.	L1	5M
		OR		
3	a	What are the different types of electrode motions and positions in SMAW	L2	5M
		welding?		
	b	Give the applications of SMAW.	L3	5M
		UNIT-II		
4	a	Name the types of weld backing methods for SAW and explain anyone.	L1	5M
	b	What are the types of fluxes and their compounding?	L3	5M
		OR		
5	Dr	aw the TIG welding setup and discuss the process.	L2	10M
		UNIT-III		
6	a	With neat sketch, explain joint designs in friction welding.	L2	5M
	b	Explain the general characteristics of a transformer.	L3	5M
		OR		
7	Wi	ith suitable diagram, explain the ultrasonic welding process.	L2	10M
		UNIT-IV		
8	a	Give the advantages and disadvantages of adhesive bonding.	L2	6M
	b	What are the applications of adhesive bonding?	L1	4M
		OR		
9	a	With a neat sketch describe the flash butt welding process.	L3	5M
	b	What do you understand about Upset butt-welding?	L2	5M
		UNIT-V		
10	a	Describe the brazing process and explain the steps used in brazed joint.	L1	5M
	b	Explain the use of brazing and disadvantages.	L2	5M
		OR		
11	a	What are the applications of Electron beam electron welding process?	L3	5M
	b	Give the advantages and disadvantages of EBW.	L2	5M

END