Reg. No:			
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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR

(AUTONOMOUS)

B.Tech II Year II Semester Supplementary Examinations July-2022 MANUFACTURING TECHNOLOGY

(Mechanical Engineering)

Time: 3 hours		Max. Marks:	Max. Marks: 60	
	(Answer all Five Units $5 \times 12 = 60$ Marks) UNIT-I			
	With neat sketch explain investment casting process and give its applications.What do you understand by cold cracks and warpage? What are the remedithem?	tes for L2	6M 6M	
	OR	s used L4	6M	
2	a Discuss the relative advantages and disadvantages of various types of furnaces used in foundry shops.			
b What do you understand by external hot tears? How they are caused? UNIT-II				
3	a What are the common welding troubles; causes and remedies for them? What are the qualities of flame used for welding? How can you?			
	b Explain the working of spot welding briefly.	L2	4M	
4	OR	1.2	734	
	Write short notes on electro slag welding.Compare TIG and MIG welding processes.	L2 L4	7M 5M	
	UNIT-III	LT	SIVI	
	a Explain hot working process with, applications & limitations.	L4	6M	
	b What are the characteristics of forging processes? Write Processes used.	L4	6M	
OR				
	What are the characteristics of extrusion processes? Write Processes used.	L2	5M	
	b What is shape rolling process? UNIT-IV	L2	7M	
7	a Explain Bending operations with a suitable sketches.	L4	6M	
	b What is Metal pinning? Explain.	L2	6M	
	OR			
	a Differentiate drawing & Deep Drawing Operations.	L4	6M	
	b Classify the types of presses used in drawing operations.	L2	6M	
	UNIT-V			
	Explain the structure of thermo plastic and thermosetting plastics.	L4	6M	
	b What are the major considerations in the design of plastic parts? OR	L2	6M	
10	a State how joining and machining of plastics are carried out.	L2	6M	
	b Explain the working principles and application of Blow Moulding.	L4	6M	