Reg. No:

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

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

(Mechanical Engineering)

П	ime	: 3 hours Max. Marks: 6	50	
		PART-A		
1	a b c d	(Answer all the Questions $5 \times 2 = 10$ Marks) What is gating ratio? What are the qualities of flame used for welding? What are the types of forging processes? What is Metal pinning?	L2 L1 L1 L1	2M 2M 2M 2M
	e	What is film blowing?	L1	2M
		(Answer all Five Units 5 x $10 = 50$ Marks) UNIT-I		
2	a	What do you understand by cold cracks and warp age? What are Remedies for , them?	L4	5M
	b	What are the rules for satisfactory design to obtain the good castings?	L2	5M
3		OR With next sketch avalain the construction and warking of aunals furness	т.4	EM
3	a b	With neat sketch explain the construction and working of cupola furnace With neat sketch explain shell molding process	L4 L4	5M 5M
1021		UNIT-II		
4	a	Differentiate between the welding, brazing and soldering processes.	L2	5M
	b	What are the common welding troubles; causes and remedies for them? OR	L2	5M
5	a	Explain Laser beam welding and its advantages with neat sketch.	L2	5M
	b	Explain the classification of welding processes briefly.	L2	5M
		UNIT-III		
6	a	Explain hot working process with an example, its processes used.	L4	5M
	b	What is open, impression die forging? Give its applications. OR	L2	5M
7	a	What are the defects in forged parts? How we can rectify the same?	L4	6M
	b	Explain cold working process with applications& limitations.	L2	4M
		UNIT-IV		
8	a	Explain the Stretch forming operations &its applications.		6M
	b	What explosives are used in explosive forming& how safety is ensured?	L2	4M
9	a	OR Classify materials used in punch, ram, die, die block in drawing work.	L2	5M
	b	Write the Formability of sheet metal characteristics.	L4	5M
		UNIT-V		
10	a	Explain the working principles and application of Transfer Moulding.	L4	5M
	b	Explain the polymerization briefly.	L2	5M
11	17201	OR	1.3	53.4
11	a b	Explain the structure of thermo plastic and thermosetting plastics. what are the foamed plastics and state how foaming is done.	L2 L4	5M 5M
	IJ	***END***	1.4	SIVI