O.P.Code: 16ME306 | R16 | H.T.No.

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech II Year II Semester Supplementary Examinations May/June-2024
MANUFACTURING TECHNOLOGY
(Mechanical Engineering)

Time: 3 Hours **Max. Marks: 60**

(Answer all Five Units **5 x 12** = **60** Marks)

UNIT-I

1	a	Explain the various properties of moulding sand.	CO1	L1	6M
	b	Describe any three types of casting defects.	CO1	L2	6M
		OR			
2	a	With neat sketch explain shell moulding process.	CO1	L1	6M
	b	With neat sketch explain centrifugal casting process.	CO1	L2	6M

UNIT-II

3	a	Write short note on Heat Affected Zone (HAZ) in welding.	CO2	L1	6M
	b	Explain the working of oxy acetylene gas welding.	CO2	L2	6M
		OR			
4	a	Write short notes on submerged arc welding and write its applications.	CO2	L1	6M
	b	Differentiate between the welding, brazing and soldering processes.	CO2	L2	6M

UNIT-III

5	a	Write short notes on (i) Hot working process (ii) Cold working process.	CO3	L1	6M
	b	What are the characteristics of rolling processes.	CO3	L2	6M
		OR			
6	a	With suitable illustration describe wire drawing processes.	CO3	L1	6M
	b	With suitable illustration describe extrusion processes.	CO3	L2	6M

UNIT-IV

7	a	Explain the stretch forming operations also state its applications.	CO4	L1	6M
	b	Explain the magnetic pulse forming operations.	CO4	L2	6M
		OR			
8	a	With suitable illustration explain the deep drawing operations.	CO4	L1	6M
	b	Write notes on micro forming Operations.	CO4	L2	6M

UNIT-V

9	a	With suitable illustration explain the injection moulding process.	CO5	L1	6M
	b	With suitable illustration explain the transfer moulding process.	CO5	L2	6M
		OR			
10	a	With suitable illustration explain the blow moulding process.	CO5	L1	6M
	b	With suitable illustration explain the rotational moulding process.	CO5	L2	6M

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