Reg. No:

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR

(AUTONOMOUS)

B.Tech I Year I Semester Regular & Supplementary Examinations March-2023 ENGINEERING MATERIALS

(Civil Engineering)

	Time: 3 hours	Max. Marks: 60							
	(Answer all Five Units $5 \times 12 = 60$ Marks)								
UNIT-I									
1	a Write the various uses of stones.	CO1	L2	6M					
	b What are the Characteristics of good tiles.	CO2	L2	6M					
	OR								
2	a What are the Methods of quarrying of stones.	CO1	L1	6M					
	b Explain the process involved in the manufacturing of bricks.	CO2	L3	6M					
	UNIT-II								
3	a What is mortar? Briefly describe the various types of mortars.	CO3	L1	6M					
	b List the characteristics of good mortar.	CO3	L2	6M					
	OR								
4	a Define water-cement ratio. How does it influence concretestrength?	CO3	L5	6M					
	b State the functions of ingredients in mortar.	CO3	L2	6M					
	UNIT-III								
5	a Explain the procedure to prepare the oil paint.	CO4	L2	6M					
	b List the various forms of wood products and there Characteristics.	CO4	L2	6M					
	OR								
6	a Explain the damage caused by insects to wood.	CO4	L3	6M					
	b What are dry and wet rots? How are they caused andprevented?	CO4	L2	6M					
	UNIT-IV								
7	What is iron? Describe how cast iron is manufactured fromiron ore.	CO5	L3	12M					
	OR								
8	Describe in detail testing of steel sections.	CO5	L3	12M					
	UNIT-V								
9	Describe the specific gravity test on coarse aggregates.	CO6	L4	12M					
	OR								
10	Explain mechanical properties of coarse aggregates.	CO6	L2	12M					

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B. Let have earlied nester Rugarian & Supplementary Examinations March-2023

(governor (frif))

		(Answer all Five Units S x 12 = 60 Marks)	
		What are the Mathods of quarrying of somes.	
		b. List tite various forms of wood products and there Characteristics.	
		Explain mechanical properties of coarse aggregates.	