O.P.Code: 20CE0101

R20

H.T.No.

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

B.Tech I Year I Semester Supplementary Examinations February-2024 ENGINEERING MATERIALS

(Civil Engineering)

Tir	ne	: 3 Hours	Max.	Mark	s: 60
(Answer all Five Units $5 \times 12 = 60$ Marks)					
85		UNIT-I			
1		Explain the process involved in the manufacturing of bricks with neat	CO1	L3	12M
		sketch.			
		OR			
2		Write short notes on,	CO1	L2	12M
		i) Write about tools used for quarrying the stones			
		ii) Methods of quarrying of stones.			
		iii) Precautions in blasting			
		UNIT-II			
3		Explain with flow diagrams the dry and wet process of manufacture of	CO ₂	L2	12M
		cement.			
		OR			
4		List the characteristics of good mortar.	CO ₂	L2	6M
	b	Briefly write about classification of concrete.	CO ₂	L2	6M
		UNIT-III	6		
5	a	1	CO ₃	L2	6M
	b	Describe various defects in timber.	CO ₃	L3	6M
		OR			
6	a	List the properties of wood and shortly write about any three properties.	CO3	L2	6M
	b		CO ₃	L2	6M
		UNIT-IV			
7		Write short notes on	CO4	L3	12M
		i) Piezoelectric materials (ii) Magneto Rheos static fluid.			
		OR			
8		Describe in detail about the reinforcing steel used in reinforced cement	CO4	L3	12M
		concrete.			
		UNIT-V			
9	a	Explain the following tests for bitumen	CO ₅	L2	6M
		(i) Flash point and ii) fire point test			
	b	Discuss the characteristics of good aggregates.	CO5	L2	6 M
		OR	~~-	T .	407.7
10		With significance briefly explain about crushing test and impact test on	CO5	L3	12M
		coarse aggregate.			

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