Q.P.	Code:	19CE0105
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Reg. No:

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

B.Tech II Year I Semester Supplementary Examinations December-2021 BUILDING MATERIALS & CONSTRUCTION

(Civil Engineering)

Time: 3 hours

Max. Marks: 60

R19

(Answer all Five Units $5 \times 12 = 60$ Marks)

UNIT-I

- a Classify the bricks and explain the working of Hoffman's kin for the burning of L2 6M bricks.
 b List the elegatifications of rocks and explain the elegatification based on coclection.
 - b List the classifications of rocks and explain the classification based on geological L1 6M formation.

OR

- 2 a Mention the factors to be considered while deciding a quarry site and also list the L2 6M various methods of quarrying.
 - b Explain the tests required to determine the suitability of bricks for construction L2 6M work.

UNIT-II

3	a	How the ordinary Portland cement will be manufactured by using wet and dry	L1	6M	
		process.			
	b	Explain in detail about Workability of cement with neat sketch.	L2	6M	
		OR			
4	a	Write down about Segregation and bleeding of concrete.	L1	6M	
	b	Write a short note on gypsum and rubber along with uses of them in daily life	L2	6M	
		applications.			
		UNIT-III			
5	a	Briefly explain about composition and preparation of paint.	L1	6M	
	b	Differentiate between fine aggregates and coarse aggregates.	L2	6M	
OR					
6	a	Briefly explain about composition of oil paint.	L1	6M	
	b	What is meant by aggregate impact value? Explain the test procedure to conduct	L2	6M	
		aggregate impact test with neat sketch.			

Q.P. Code: 19CE0105 UNIT-IV		R19			
7	a	What are the requirements for good foundation?	L2	6M	
	b	Explain briefly about Foundation failures with neat sketch.	L2	6M	
		OR			
8	a	What are the different types of stone masonry? Explain in detail.	L2	6M	
	b	In detail explain about bond formation in brick masonry with neat sketch.	L2	6M	
		UNIT-V			
9	a	Explain in detail about different terms used in Arches.	L1	6M	
	b	What are the different types of mortars used for plastering explain in detail.	L2	6M	
OR					
10	a	Classify and explain different types of arches based on materials used.	L2	6M	
	b	Write a short note on defects in plastering.	L1	6M	

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