	Q.P. Code: 20CE0105	R20						
	Reg. No:							
	SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR							
	(AUTONOMOUS)							
	B.Tech II Year I Semester Regular & Supplementary Examinations March-2023							
	BUILDING TECHNOLOGY							
	(Civil Engineering)							
	Time: 3 hours	Max. M	larks: 6	0				
	(Answer all Five Units $5 \times 12 = 60$ Marks)							
	UNIT-I							
1	Describe briefly spread footing with neat sketch.	CO1	L1	12M				
0	OR			_				
2	What are the causes of failure of foundations? What measures are to be taken to	CO1	L1	12M				
	prevent such failure?							
3	UNIT-II	000	T 1	101.6				
3	What is the purpose of flooring and what are the materials used for construction?	CO2	L1	12M				
	OR							
4	a Define Plastering. What are the objectives or requirements of Plastering?	CO2	L1	6M				
	b Write short notes on types of mortars for plastering?	CO2	L1	6M				
	UNIT-III							
5	a Explain briefly about Dog-legged stair case with neat sketch	CO3	L2	6M				
	b Plan a dog legged stair for a building in which the vertical distance between	CO3	L3	6M				
	the floors is 3.6m. The stair hall measures $2.5 \text{ m} \times 5 \text{ m}$.							
	OR							
6	a State briefly essential requirements of a good roof.	CO4	L2	6M				
	b Explain, in brief with neat sketchesi) Madras Terrace roofii) Bengal Terrace roof	CO4	L2	6M				
7	a What are the functional requirements of a good ventilating system?	CO5	L1	6M				
	b Describe briefly various types of filters for Air-conditioning	CO5	L1	6M				
	OR							
8	Summarize the fire-resisting properties of common building materials.	CO5	L2	12M				
9	An office block with 20 storeys above ground floor having unified starting and	CO6	L4	12M				
	stopping times is to have a floor area above the ground floor of 8000 m^2 and							
	floor pitch of 3 m. A group of four lifts, each car having a capacity of 20							
	persons and a car speed of 2.5 m/s are specified. The clear door width is to be							
	1.1 m and the doors are to open at a speed of 0.4 m/s . Estimate the interval for							
	the group.							
10	OR	001	10	101 -				
10	Discuss how Radio sensor, pressure mat and taut wiring detectors are security for various buildings.	CO6	L2	12M				

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