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MARRI LAXMAN REDDY INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(AN AUTONOMOUS INSTITUTION)
(Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad)
Accredited by NBA and NAAC with 'A' Grade & Recognized Under Section2(f) & 12(B)of the UGC act,1956

II B.Tech II Sem Regular End Examination, July 2022 **Building Materials Construction and Planning**(Civil Engineering)

Time: 3 Hours. Max. Marks: 70

Note: 1. Question paper consists: Part-A and Part-B.

- 2. In Part A, answer all questions which carries 20 marks.
- 3. In Part B, answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART- A

(10*2 Marks = 20 Marks)

CO2

1.	a)	Define quarrying of stones.	2M	CO1	BL1		
	b)	State the need of seasoning of timber.	2M	CO1	BL1		
	c)	Express chemical composition of cement.	2M	CO2	BL1		
	d)	What is the role of concrete properties?	2M	CO2	BL1		
	e)	Classify different types of foundation.	2M	CO3	BL2		
	f)	State the advantage of PVC pipes.	2M	CO3	BL1		
	g)	Differentiate between load bearing wall and non load bearing wall.	2M	CO4	BL2		
	h)	How mortar is made as fire proof?	2M	CO4	BL1		
	i)	List out different factors affecting the selection of site.	2M	CO5	BL1		
	j)	State the significance of orientation of building in planning stage.	2M	CO5	BL1		
		PART- B					
			10*5 Marks = 50 Marks)				
2	a)	What is meant by 'Quarrying of stones'? Explain the detailed methods of quarrying of stone.	5M	C01	BL4		
	b)	Describe about various alternative materials used in the place of timber in construction.	5M	CO1	BL2		
		OR					
3		Explain the process involved in burning bricks using Hoffman's kiln with a neat sketch.	10M	C01	BL4		
4	a)	Explain the method of finding fineness and soundness of cement?	5M	CO2	BL2		
1	b)	What are Bouge's chemical compounds? Explain the chemical	5M	CO2	BL4		
	UJ	reaction of these compounds with cement?	3141	002	DLT		
		OR					

List out different type of mineral admixtures? Further, explain the 10M

properties of each type of admixture?

Course Code: 2040115 Roll No:			MLRS-R20		
6	a)	Explain in detail about the important damp proofing methods.	5M	C03	BL4
	b)	Classify different types of roof? Explain the features of all of them.	5M	CO3	BL2
		OR			
7		Explain the various types of plumbing services used in buildings.	10M	CO3	BL4
8	a)	Explain the load transfer mechanism in structures.	5M	C04	BL4
	b)	State the method of preparation of cement mortar.	5M	CO4	BL1
		OR			
9		Explain in detail various types of traditional and special finishing works in buildings.	10M	CO4	BL4
10	a)	Explain about open spaces provided in buildings.	5M	C05	BL4
10	b)	As per building bye laws, how the buildings are classified? Explain in detail about all classifications.	5M	CO5	BL4
		OR			
11		What are the different limitations given for height and built up area of buildings? Explain as per building bye laws.	10M	C05	BL3

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