

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 Supply End Examination, July 2022 **Building Materials, Construction and Planning**(CIVIL)

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)

			(10 2 Marks - 20 Marks)					
1.	a)	What is dressing of stones?	2M	CO1	BL1			
	b)	What is the chemical composition of Brick Earth?	2M	CO1	BL1			
	c)	Enumerate various types of cement?	2M	CO2	BL2			
	d)	State 4 important uses of rapid hardening cement.	2M	CO2	BL1			
	e)	Define acoustic design.	2M	CO3	BL1			
	f)	Explain classification of fire resisting materials.	2M	CO3	BL1			
	g)	What is concrete block masonry?	2M	CO4	BL1			
	h)	Define pointing.	2M	CO4	BL1			
	i)	What is orientation? State the factors affecting orientation.	2M	CO5	BL1			
	j)	Classify the building based on their occupancy.	2M	CO5	BL2			
		PART- B	PART- B (10*5 Marks = 50 Marks)					

2	a)	Explain the manufacturing process of aluminum.	5M	CO1	BL4	
	b)	Explain the classification of bricks with neat sketch.	5M	CO1	BL4	
		OR				
3		What are the various methods of quarrying of stones? Explain each method briefly.	10M	C01	BL4	
4	a)	Explain briefly about the tests to be conducted on cement to determine its properties.	5M	CO2	BL4	
	b)	Briefly explain the classification of admixtures.	5M	CO2	BL4	
		OR				
5		What are air entraining agents? How these air entraining agents help in improving performance of cement?	10M	CO2	BL1	

	Course Code: 1940115 Roll No:		MLRS-R19		
6	a)	Define the term foundation? Explain in detail various types of building foundations.	5M	CO3	BL4
	b)	State briefly the requirement of good stair.	5M	CO3	BL1
		OR			
7		What are different types of arches that are used for engineering construction? Describe any three types in detail with sketches.	10M	CO3	BL2
			516	201	DIA
8	a)	What is brick masonry? State and explain briefly the various classifications of brick masonry.	5M	CO4	BL4
	b)	What is form work? What are the stages involved in construction of form work?	5M	C04	BL1
		OR			
9		Define the terms in masonry: 1) Header, 2) Stretcher, 3) Quoin, 4) Queen closer, 5) King closer	10M	CO4	BL1
10) a)	State and explain the various basic principles of building planning?	5M	CO5	BL4
	b)	Explain various principles underlying building bye-laws.	5M	CO5	BL4
		OR			
1	1	What are the requirements for submission of drawing for issue of permission for construction?	10M	CO5	BL1

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