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WAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech II Year II Semester Examinations, May - 2016 BUILDING MATERIALS, CONSTRUCTION AND PLANNING

**	(Common to C	E, CEE)	X * **	* "x xx"	* * **		
/ime:	3 Hours		Max	x. Marks: 75			
Note:	This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units: Answer any one full question from each unit: Each question carries 10 marks and may have a, b, c as sub questions.						
	PART	- A		(25 Marks)			
1.a) c) d)	List out the qualities of a good building so Differentiate between Natural and artific What are the ingredients of Portland cem Define mineral admixtures and give its up	ial seasonings.		[2] [3] [2] [3]	K9		
e) f) g).	List out types of floors. Describe the importance of fire protection Distinguish between plastering and point Define scaffolding and its uses.	n in any type of	building.	[2] [3] [2] [3]	KS		
i) j)	Give the classification of buildings as pe What do you understand by principles of			[2] [3]	ж "й м+"		
	PART	-В		(50 Marks)			
2,a):	What are the constituents of good brick ingredients.	earth? Explain	about the fu	nctions of its	* * * * * * * * * * * * * * * * * * *		
b)	List out the methods of quarrying and ex OR	plain any one m	nethod.	[5+5]			
3.a)	Explain about the defects in timber with Describe the advantages and uses of Alu		K9	[5+5]	****		
4.a) b)	List out the laboratory tests on cement an Explain about the dry process of manufa			agram.			
,				[5+5]			
5.a) b) c)	OR Describe the field tests on cement. List out the chemical admixtures and its Briefly explain about hydration of cement			[3+3+4]	K9		
6.a)	List out types of roofs and explain any o	ne type with a n	eat sketch.				
b)	Enumerate types of foundations. List out types of arches.		******	[4+3+3]	****		
7.a) b)	What do you mean by air-conditioning? Describe about the ideal requirements of	Explain about a	•	od. [5+5]			
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ı	b)	List out types of bonds in brick masonry and explain any one bond with a neat sketch. Explain about the properties and advantages of Aluminum Composite Panel (ACP). OR					
	9.a) b) 10.a)	Differentiate between Define shoring. Explain Write short notes on: i) Building bye-laws for open a	[5+5]	K9			
	b)	Explain about the mer	its and dem	erits of building bye-lav		[5+5] Explain with	
	b)	examples. Explain with suitabl	e examples	s the significance of a typical aspect diagra	'aspect'	in planning a	
	X	in the cubic of prevailing		00O00	KU		K
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•••	K9	K9	K9	KS	K9	K9	K9
	K9	K9	K9	K9	K9	K9	K9
X + + - X	K9	K9	K9	K9	K9	K9	K9
X + 4 X		K9		KO)	K9	KÜ