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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 CE, CEE)

		(Common to	CE, CEE)							
/ime:	3 Hours			Ma	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.									
		PAR	RT-A		(25 Marks)					
1.a) (b) (c)		een Natural and arti	ficial seasoninement?	ngs.	[2] [3] [2]					
d) e) f)	Define mineral adr List out types of flo Describe the impor	oors.	tion in any ty	pe of building.	[3] [2] [3]					
i) j)	Distinguish between plastering and pointing.  Define scaffolding and its uses.  Give the classification of buildings as per National Building code.  What do you understand by principles of planning of a building?  [2]  [3]									
		PAI	RT-B		(50 Marks)					
2,a).	What are the consingredients.	tituents of good bri	ick earth? Exp	olain about the fo	unctions of its	* * * * * * * * * * * * * * * * * * *				
b)		ds of quarrying and O		one method.	[5+5]					
3.a)	Describe the advar	defects in timber wintages and uses of A	luminum.	es.	[5+5]	* 4 * X * X * X * X * X * X * X * X * X				
4.a) b)	List out the laboratory tests on cement and explain any one test.  Explain about the dry process of manufacture of cement with flow diagram.									
		O	P		[5+5]					
5.a):	Describe the field List out the chemic		X	****	K9	X				
c)	Briefly explain abo	out hydration of cer	nent.		[3+3+4]					
6.a) b)	List out types of ro Enumerate types o	oofs and explain any	y one type wit	h a neat sketch.						
c)		ches.	R		[4+3+3]	W W X 6 M 6 M 6 M 6 M 7 M 7 M 7 M 7 M 7 M 7 M				
7.a) b)	What do you mean	by air-conditioning ideal requirements	g? Explain ab	out any one meth	od. [5+5]					
9 4 9 X X 6 6 7 6 7 6 8 6 8 8 8 8 8 X 8 6 8 X 8 6	KS	K9	* * * * * * * * * * * * * * * * * * *	KB	K9	* * * * * * * * * * * * * * * * * * *				

by	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 b Define shoring. Explain Write short notes on: i) Building bye-laws for	rick masonry about any or in the second r off-sets	and stone mason ne method of sho		[5+5]	K9				
b)	ii) Bye-laws for open an Explain about the merit			e-laws.	[5+5]					
11.a)	How do you achieve examples.	roominess	OR and flexibility in	n a building? F	Explain, with	A N N N N N N N N N N N N N N N N N N N				
b) Explain with suitable examples the significance of 'aspect' in planning a residential building and prepare a typical aspect diagram for the area where the direction of prevailing breeze is from North-West. [5+5]										
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K9	K9		ooOoo	K9	KÐ	K9				
				x * ***	x x x.	• _4 _+x*_				
* * **********************************	K9	K9		KH	KV					
* * * * * * * * * * * * * * * * * * * *	K9	K9	K9	K9	K9	K9				
KÜ	K9	K9	K9	K9	K9	K9				
	K9	KS	K9	K9	K9	KS				