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Total No. of Questions: 5 | Total No. of Printed Pages: 3 Roll No. .... CE-404(N) B. E. (Fourth Semester) EXAMINATION, June, 2010 (New Scheme) (Civil Engg. Branch) CONSTRUCTION MATERIALS AND TECHNIQUES [CE-404(N)] Time: Three Hours Maximum Marks: 100 Minimum Pass Marks: 35 Note: Attempt all the five questions. 1. (a) What are the functions of seasoning of timber? Describe methods for seasoning of timber. 10 (b) Describe the qualities of a good brick. 10 Or (a) Enumerate the laboratory tests of stone. Describe any one in detail. 10 (b) Write short notes on the following: 10 (i) Fly Ash Brick (ii) Steel Shuttering 2. (a) What is fly ash? What is its sources and uses? Describe the utility of fly ash in civil engineering

building materials.

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(c)	What are the advantages and disadvantages of stabilized mud blocks?		
	Or		
(a)	Write short notes on the following:		
	(i) Use of fly ash in concrete.		
	(ii) Use of PVC material in building.		
(b)	Enumerate the agricultural and industrial waste, which can be used as building material.		
(c)	What are the requirements of good flooring material ? 5		
(a)	What is the principle of raft foundation? Draw its sketch. Where is it useful?		
(b)	What is underreamed pile? What is its application?		
	Draw the neat sketch of underreamed pile . 10		
<i>(</i> )	Or		
(a)	What is the classification of foundation? Describe well foundation in detail.		
(b)			
(b)	Write short notes on the following: 10  (i) Soil stabilisation		
	(ii) Bearing capacity of soil		
	(iii) Damp proof course		
(0)			
(a)	1 2		
(1.)	English bond.		
(b)	Write short notes on the following:		
	(i) Cavity wall		
	(ii) Hollow concrete block		
ing.	Or		
(a)	What are the merits and demerits of brick masonry		

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	(b)	What are the common defects in construction of wal	1?5
	(c)	What is the difference between plastering	and
		painting?	5
5.	(a)	Write short notes on the following:	
		(i) Low cost housing	5
		(ii) Drainage arrangement of building	. 5
	(b)	Describe mosaic floor in details.	10
		Or	
	(a)	Draw neat sketch of lean to roof.	5
	(b)	Write short notes on any two of the following:	15
		(i) Ferrocement Techniques	
		(ii) Thermal Insulation of Building	
		(iii) Timber flooring	