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Roll No.:....

320355(20)

B. E. (Third Semester) Examination, April-May 2021

(New Scheme)

(Civil Engg. Branch)

BUILDING MATERIALS

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: All questions are to be attempted. Part (a) of each unit is compulsory carrying of 02 marks.

Attempt any two parts of each unit out of (b), (c) & (d) which carries 07 marks each.

Unit-I

- 1. (a) What is ferrocement?
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(b) Distinguish between:

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	(i) Rapid hardening cement Vs. Low heat cement		
	(ii) High alumina cement and super sulphated cement		
(c)	Write short notes on: (Attempt any two)	7	
	(i) Flakiness Index		
	(ii) Elongation Index		
	(iii) Impact factor test		
(d)	Distinguish between setting and hardening of cement.		
	Name the compounds which are responsible for		
	setting and hardening.	7	
	Unit-II		
(a)	Flexural strength of concrete is about of		
	compressive strength.	2	
(b)) List all the factors that influence the properties of		
	concrete in the plastic stage and the hardened stage.		
	Explain any two of the properties in detail.		
	What is Workability? What are the factors affecting		
	it?	7	
(d)	What is admixture? Explain its types in detail.	7	
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3.	(a)	What are the ceremic materials?			
	(b)) Describe in detail properties of ceremics.			
	(c)	Enumerate ceremic building products and describe briefly ceremic tiles.			
	(d)	l) Write short notes on :			
		(i) Porcelain tile			
		(ii) Glazing of tiles			
		Unit-IV			
4.	(a)	What is a knot?	2		
	(b)	What are the structural properties of timber?	7		
	(c)	What is artificial seasoning? State the objectives of artificial seasoning.	7		
	(d)	List various types of timber grading and describe strength classes of a timber.	7		
Unit-V					
5.	(a)	What is the covering capacity of Acrylic Plastic emulsion in two coats?	2		
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(h)	[4]			
(4) What are distemp	ers? Describe the application			
procense of soft di	stempers.			
(c) What are the function	ions of glass in buildings?			
(d) What are Plastics? What are the commonly used				
plastics?	bradly curemic files			
	shrammari (i)			
	uit Ohangarutin			
	Unit-fiv			
	(b) What are the structural pri			
	of White a spiticial seasoning and companies.			
	don't rapiduoise (a. L. b)			
	Value			