Printed Pages- 4

Roll No.

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APR-MAY

B. E. (Third Semester) Examination, 2020

inervia amiliary in (Old Scheme)

(Civil Engg. Branch)

BUILDING CONSTRUCTION

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: All questions are compulsory. Part (a) of each question is compulsory having 2 marks and solve any two parts from remaining part (b), (c) and (d) of each question having 7 marks.

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1. (a) What is water to Cement Ratio (W/C)?

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- 1	146
- 1	2
- 16	

Unit-III	

	(b)	Write short notes on the following:	7
		(i) Rapid Hardening Portland Cement	
		(ii) Sulphate Resisting Portland Cement	
4		(iii) High Alumina Cement	
	(c)	What is Hydration of Portland Cements?	7
	(d)	Discuss briefly the ingredients of portland cement	
		alongwith their functions.	7
		Volume Unit-II	
2.	(a)	What are the basic constituents of cement concrete?	2
	(b)	Write short notes on :	7
		(i) Permeability reducing admixtures	
	dones	(ii) Air-entraining admixtures	
	(c)	What is Self-Compacting or Consolidating concrete	
	25/5	and what are advantages of using it?	7
	(d)	What are the safety measures to be taken while	
		working with wet concrete?	7

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3.	(a)	What is Short Crete?	2
	(b)	What is Ferro cement? State its properties.	7
	(c)	Describe Cellular Concrete and state its properties.	7
	(d)	Describe briefly the High-Strength Concrete and	
		High Performance Concrete.	7
		Unit-IV	
4.	(a)	What is the difference between Softwood and Hardwood?	2
	(b)	What is Plywood and where is it used with advantage? State its use in modern building.	7
	(c)	Describe the following test for timber: (i) Compressive strength (ii) Cleavability	7
		(iii) Tensile strength	

	(d)	Differentiate between:	7
		(i) Exogenous and Endogenous Trees	
		(ii) Natural and Artificial Seasoning	
		Unit-V	
5.	(a)	What are the function of adulterant in a paints?	2
	(b)	What are the different types of paints used for	
		protecting steel structures in coastal regions?	7
	(c)	Why are steel structures painted? Describe the procedure of painint an old steel structure.	7
	(d)	Write short notes on: (i) Ingredients of paints	7
		(ii) Defects in painted work (iii) Enamels (iv) French polish	