

KERALA AGRICULTURAL UNIVERSITY B. Tech. (Agrl. Engg.) 2020 Admission III Semester Final Examination – March 2022

Iden.2104

Building Construction and Cost Estimation (2+0)

Marks: 50

		T	ime: 2 hour
I		Fill in the blanks	(10x1=10
		. The process of iron react with oxygen is known as	(10/1-10
	2	apparatus is used for testing the consistency of cement	
	3	Calculation of present market cost of building is called	
	4	Ine end support of an arch is known as	
	5	The horizontal platform between two consecutive flights in a stair is	
		State True or False	
	6	The state of the s	
	7.	. The compressive strength of concrete increases with increase in w/c ratio	
	8.	. Materials having good durability are not preferred for construction purpose	
	9.	. The retractory materials are used for high temperature conditions	,
	10.	Fineness of cement is express as gm/cm ² .	
II		Write short notes on ANY FIVE of the following	(5x2=10)
	1.	Write a short note on any four qualities of good brick.	(3X2=10)
	2.	Differentiate lime and slaked lime.	
	3.	What are the precautions to be taken while storing the cement?	
	4.	Briefly explain any two properties of good sand.	
	5.	Write a short note on workability of concrete.	
	6.	List out any four functional requirements of buildings.	
	7.	Write a short note on centre line method of estimation.	
Ш		Answer ANY FIVE of the following	(5-4 20)
	1.	List out and briefly explain any 5 important physical properties of building	(5x4=20)
	2.	List out any two types of tiles, its properties and usage.	materials.
	3.	Define building estimation. Briefly explain any three types of building estin	nation
	4.	Define Natural bed of stone and discuss its importance.	
	5.	Briefly explain any four tests on aggregates.	
	6.	What are the qualities of good timber?	
	7.	Draw a cross section of a typical staircase and mark any six of the following	
		components: Run, Rise, Landing, Riser, Nosing, Thread, Soffit, Waist, Balu Handrail, Newel, Newel cap	ster,
IV		Write an essay on ANY ONE of the following	(1-10 10)
	1.	List out 10 different types of cement. Mention the main properties of each ce	(1x10=10)
	2.	Describe the manufacturing process of bricks.	ement.
		of ottorio.	
