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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY FIRST SEMESTER B.TECH DEGREE EXAMINATION(S), MAY 2019

Name: Name:

Course Code: BE101-01

Course Name: INTRODUCTION TO CIVIL ENGINEERING

Duration: 3 Hours

		Discuss the use and property of the propert	Marks
1	Answer all questions, each of What is a silo?	carries 1 mark.	(1)
2	What is efflorescence in bricks?		(1)
3	Define standard consistency.		(1)
4	What is dry masonry?		(1)
5	What is tor steel?		(1)
6	Define span of a roof.		(1)
	PART B		
7	Answer all questions, each ca	rries 5 marks.	
7	How buildings are classified based on fire resist	ance offered by buildings?	(5)
8	Describe briefly various methods of quarrying.		(5)
9	List the desirable qualities of aggregate for conc	crete.	(5)
10	Define the following terms with respect to brick	masonry a) King closer	(5)
	b) Queen closer c) Bat d) Quoin header e)Cours	e	
11	What are the defects in timber?		(5)
12	What are the different roofing materials and its	selection criteria?	(5)
	PART C		
	Module I & II		
13	Answer any three full questions, ea How buildings are classified based on National		(6)
14	What are the different parts of a building? Expla	in with neat sketches?	(6)
15	Explain the laboratory tests on bricks.		(6)
16	Discuss the steps involved in the manufacture of	f tiles.	(6)
	Module III & IV	7	
17	Answer any three full questions, ea Write the composition of ordinary cement indic	ch carries 6 marks. ating the required percentage and	(6)
	function of each ingredient.		
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18 Explain the tests to determine the flakiness index and elongation index of (6) aggregate.

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-, i.e e	19	Explain the classification of stone masonry.	(6)
	20	Explain the English bond and Flemish bond in brick masonry with neat figures	s. (6)
	21	Module V& VI Answer any four full questions, each carries 7marks. Explain the different methods of preservation of timber.	(7)
g in ann a' a'	•22	Describe the manufacturing process and uses of hard board and particle board.	. (7)
e s si t	23	Discuss the use and properties of mild steel, medium steel and high carbon stee	el. (7)
ere i	24	What is a truss? Sketch any three types of truss.	(7)
	25	Write short notes ona) Terrazzo flooring	(7)

b) Tiled flooring

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