Reg No.:______Name: GOUCATION

APJ ABDUL KALAM TECHNOLOGICAL VNIVERSITY

FIRST/SECOND SEMESTER B.TECH DEGREE EXAMINATION, MAY 2019

Course Code: CE100

Course Name: BASICS OF CIVIL ENGINEERING

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M	ax. I	Ma	urks: 100 Duration: 3 1	Hours
			PART A	Marks
1			Answer all questions, each carries 3 marks. List down the various disciplines of Civil Engineering.	(3)
2			Define (a) Plinth area (b) Carpet area.	(3)
3			What are the basic principles of surveying?	(3)
4			Explain any two types of steels sections available in the market with sketches.	(3)
5			Explain the purpose of foundations.	(3)
6			Explain the terms (a) Quoin (b) Closer in brick bonding.	(3)
7			What are different types of roofs?	(3)
8			Differentiate between Elevators and Escalators.	(3)
9			What are the factors to be considered for air conditioning a building?	(3)
10) "		What is a ramp? Write short notes on its Civil Engineering aspects.	(3)
		10.00	PART B	
11			Answer any eight questions, each carries 6 marks. List out the type of building as per occupancy. Explain any four.	(6)
12	2		Explain the components of a building with neat figure.	(6)
13	}		List the steps in setting out of building by centre line method.	(6)
14			What are the open space requirements as per NBC norms?	(6)
15	5		Draw a site plan incorporating all the necessary details.	(6)
16	6		Explain the various instruments used for levelling.	(6)
17	7		Give short notes on (a) EDM (b) Total Station (c) GPS	(6)
18	3		Write any three properties of good bricks.	(6)
19)	•	Explain the constituents of cement mortar and explain the steps involved in the hand mixing of cement mortar.	(6)
20)		List out the uses of steel in building construction.	(6)
, a m			PART C	. 1
9			Answer any two questions, each carries 11 marks.	(6)
21	l a	1)	Explain the procedure of plastering.	(6)
	b)	Explain the concept of intelligent buildings.	(5)
22	2 a	1)	Explain the types of shallow foundations.	(6)

	b)	List out the types of floor finishing materials available? Explain any 2 of them.	(5)
23	a)	Write short notes on uses of (a) chimney (b) water tanks (c) towers.	(6)
	b)	What are the civil engineering aspects of sound proofing?	(5)
