

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
FIRST/SECOND SEMESTER B.TECH DEGREE EXAMINATION, MAY 2019

Course Code: CE100

Course Name: BASICS OF CIVIL ENGINEERING

Max. Marks: 100

Duration: 3 Hours

PART A

Answer all questions, each carries 3 marks.

		Marks
1	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 steel 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)

PART B

Answer any eight questions, each carries 6 marks.

11	List out the type of building as per occupancy. Explain any four.	(6)
12	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	Draw a site plan incorporating all the necessary details.	(6)
16	Explain the various instruments used for levelling.	(6)
17	Give short notes on (a) EDM (b) Total Station (c) GPS	(6)
18	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)

PART C

Answer any two questions, each carries 11 marks.

21	a) Explain the procedure of plastering.	(6)
	b) Explain the concept of intelligent buildings.	(5)
22	a) 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)
