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Reg No.: Name:

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

FIRST/SECOND SEMESTER B.TECH DEGREE EXAMINATION, JULY 2018

Course Code: CE100

Course Name: BASICS OF CIVIL ENGINEERING

	Course Name. DASICS OF CIVIL ENGINEERING	
Max. N	Marks: 100 Duration: 3	Hours
	PART A	
	Answer all questions, each carries 3 marks	Marks
1	List any three components of a residential building. Briefly explain the functions	(3)
	of these components.	
2	What is the function of a door? Where it should be located?	(3)
3	List the instruments used in chain surveying for horizontal measurement. Write	(3)
	down the use of any one instrument in chain surveying.	
4	Differentiate between plinth area and carpet area.	(3)
5	Write short notes on different grades of cement concrete.	(3)
6	Name any one type of structural steel section available in the market and explain	(3)
	its specifications with a neat sketch.	
7	Draw the sketch of any one type of shallow foundation (plan and elevation).	(3)
	Mention the name of foundation also.	
8	Write down the procedure for preparation of surface for painting.	(3)
9	Differentiate between elevators and escalators.	(3)
10	What is a chimney? Write short notes.	(3)
	PART B	*
	Answer any eight questions, each carries 6 marks	
11	List and explain the physical properties of Ordinary Portland Cement.	(6)
12	Write down the procedure for preparing cement mortar.	(6)
13	What is a site plan? Which are the information to be included in a site plan?	(6)
14	The wall thickness provided for a single room building of room size 4.00m X	(6)
	2.00m is 20cm, which is situated in plot of 10m length and 6m width. Determine	
	the plinth area, carpet area and Floor Area Ratio.	
15	What is meant by a bench mark in levelling? What are the different types of	(6)
	bench marks used?	
16	What are the factors to be considered while selecting the site for a residential	(6)
	building?	
17	What are the two general principles of surveying? Write short notes.	(6)
18	How buildings are classified according to occupancy as per National Building	(6)
	Code?	
19	List any six major disciplines of Civil Engineering and write down the	(6)
	significance and scope for each of them.	
20	Following consecutive readings were taken with a dumpy level and a levelling	(6)
	staff.	
	1.800, 1.235, 2.000, 0.850, 1.350, 2.250, 1.835, 2.225, 1.200, and 1.900. First	

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reading was taken on a bench mark whose reduced level is 100.000 and the instrument is shifted after third and seventh readings.

- i) Rule out the page of level book and enter above readings.
- ii) Determine the reduced levels of all points.
- iii) Apply arithmetic checks.

PART C

Answer any two questions, each carries 11 marks

- 21 a) What are the different types of pile foundations? Explain each in one or two (6)sentences with neat sketches.
 - b) Explain about the types of water tanks used in buildings. (5)
- 22 a) Explain in one or two sentences different types of floorings. (6)
 - b) How the systems of air conditioning are classified? Give brief description for (5) each system. http://www.ktuonline.com
- 23 a) What are the benefits of intelligent buildings? (5)
 - b) List and explain different types of roof covering materials. (6)

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