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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

B.Tech Degree S1 (S, FE) S2 (S, FE) Examination December 2023 (2015 Scheme)

Course Code: CE100 Course Name: BASICS OF CIVIL ENGINEERING

Max. Marks: 100 **Duration: 3 Hours** PART A Marks Answer all questions, each carries 3 marks 1 List various disciplines of civil engineering. (3) 2 What are the function of doors and windows in a building? (3) What are the commonly adopted open space requirements for a residential 3 (3) building? 4 Define a) plinth area, b) floor area and c) carpet area (3) 5 Differentiate between escalators and elevators (3) Differentiate between stretcher bond and header bond. 6 (3) 7 List different types of roofing materials (3) 8 Write any three functions of foundation (3) 9 What are ramps? What are the design considerations for construction of ramps? (3) 10 Write short notes on water tanks. (3) PART B Answer any eight questions, each carries 6 marks 11 What are the factors to be considered while selecting the site for residential (6)building? 12 What is a site plan? What are the information to be included in a site plan? (6)13 Explain classification of buildings as per NBC (6)14 Discuss the various principles of building planning (6)15 What are the instruments used for ranging? Explain direct ranging. (6) 16 The following consecutive readings are taken on a level with station A as (6) benchmark. (Reduced level of station A is 150.00m). 2.190, 3.160, 1.050, 0.230, 3.440, 3.170, 3.420, 3.720, 2.390. The instrument is shifted after the fifth reading. Enter these readings in a level book and calculate the reduced level of all points? 17 Write short notes on digital level and total station. .(6)

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18		Describe different types of cement and its uses.	(6)
19		Describe different types and market forms of steel	(6)
20		Differentiate between PCC and RCC	(6)
		PART C	
		Answer any two questions, each carries 11 marks	
21	a)	Explain classification of foundation with neat sketch.	(6)
	b)	Explain the procedure of painting wood surface	(5)
22	a)	Discuss the various types of flooring materials	(6)
	b)	Write short notes on towers	(5)
23	a)	Explain the classification of air conditioning system	(5)
	b)	Explain the importance and features of intelligent building	(6)
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