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Reg No.:

Name:

APJ ABDUL KALAM TECHNOLOGICAL U

FIRST/SECOND SEMESTER B.TECH DEGREE EXAMINA

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 any six types of buildings as per occupancy according to National Building (3) Code. 2 Explain the term plinth area, floor area and carpet area. (3) 3 What are the advantageous of Total Station over conventional survey (3) instruments? 4 Differentiate between plain cement concrete and reinforced cement concrete. (3) 5 Describe the functions of foundations. (3) 6 Draw neatly the elevation of a one brick thick English Bond. (3) 7 What is meant by bearing capacity of soil? (3) 8 Differentiate between Elevator and Escalator. (3) 9 What are the different types of Air Condition equipment based on location? (3)10 Mention any three points to be kept in mind while preparing site plan for a (3)building. PART B

Answer any eight questions, each carries 6 marks.

- 11 Mention the different components of a building with neat sketch. Describe the (6)functions of any three components.
- 12 What is meant by setting out of a building? Explain the procedure for setting out (6) of a single room building with neat sketch.
- 13 What is meant by ranging? Describe the procedure adopted in direct ranging. (6)
- 14 The following consecutive readings Where taken with a dumpy level. 1.89, 1.14, (6)-1.36, 2.75, 1.02, 1.52, 1.07. The level is shifted after fourth and sixth readings. The reduced level of first point was 100.00. Draw page of level field book and enter the readings on it. Also find the reduced levels of all the points. Use height of instrument method and do necessary checks also.