

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE**Summer Semester Examination, May 2018****B. Tech. First Year (Semester - II)****Subject with Subject Code: Basic Civil Engineering (CV205)****Time: 03 Hours****Max. Marks: 60****INSTRUCTIONS TO THE STUDENTS:**

1. Attempt any five questions from the given six questions. Figures to the right indicate full marks.
2. Illustrate your answers with neat sketches, diagrams etc. where ever necessary.
3. Necessary data is given in the respective questions. If such data is not given, it means that the knowledge of that data is a part of the examination.
4. If some part or parameter is noticed to be missing, you may appropriately assume it and should mention it clearly.
5. Use of logarithmic table, drawing instruments and non-programmable calculators is permitted.

Q. 1 a) Define the following terms: Strength, Hardness, Elasticity, and Plasticity. (4)

b) Write a short note on composition of cement clinker. (8)

Q. 2 Solve any two from the following: (6x2)

a) Explain with neat sketch: conventional spread footing.

b) Write the classification of Piles according to Load Transfer mechanism.

c) What are the functions of doors and windows?

Q. 3 a) Enlist the different elements of a building. (4)

b) Explain in brief the various aspects of orientation. (8)

Q. 4 a) Draw a neat sketch of telescopic leveling staff. (4)

b) What are the fundamental principles of surveying? Explain briefly. (8)

OR

b) Explain in brief the primary divisions of surveying. (8)

Q. 5 a) Draw a neat sketch of a general cross-section of a road. (6)

b) Draw neat sketches of: No parking, Overtaking prohibited, No entry. (6)

Q. 6 a) What is meant by air pollution and what are its sources. (6)

b) Write a short note on rain water harvesting. (6)

