

**DR. BABASAHEB AMBEDKAR TECHNOLOGICAL  
UNIVERSITY, LONERE**

**END SEMESTER EXAMINATION**

Semester: 1  
Time: 03 Hours

(CV107): Basic Civil Engineering (Elect, Comp, IT, Extc)

**06 MAY 2017**

Max. Marks: 60

**Instructions**

1. Try to Attempt any five questions (i.e. from Q. 1. to Q. 6).
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.

- Q.1 A) What are the necessary qualities of good brick and classification of bricks? (06)
- B) Define the following terms with sketch wherever necessary (06)
- a) Ranging
  - b) king closer
  - c) Offset
  - d) Coping
- Q.2 A) Enlist various sources of water and Explain various operations in water treatment plant. (06)
- B) Explain the detailed classification of pile depending upon the material used in their manufacture. (06)
- Q.3 A) Describe the term Foundation with its purposes. Enlist type of foundation and explain any two? (06)
- B) Write a detail note on traffic signal and speed breaker with the help of diagram. (06)
- Q.4A) Define Whole circle bearing and Reduced bearing (Quadrantal bearing). Convert the following WCBs to QBs. (06)
- a) WCB of PQ =  $45^{\circ}30'$
  - b) WCB of QR =  $125^{\circ}45'$
  - c) WCB of RS =  $222^{\circ}15'$
  - d) WCB of ST =  $320^{\circ}30'$
- B) Define waste water and what are the ill effects of waste water? (06)
- Q.5 A) Draw different sketches of cross-section of Roads, shortly Explain its classifications. (06)

B) Write a short note on. (06)

- a. Garden wall bond
- b. Header Bond
- c. Flemish bond

Q.6 A) State the Comparison of stone masonry and brick masonry. (06)

B) Enlist the Methods for Linear measurement of Surveying and (06)  
Explain the accessories used for Linear Measurement