Total No. of Questions : 8] *[Total No. of Printed Pages : 2*

Roll No .....

CE-604 (GS)

B.E. VI Semester

Examination, December 2017

Grading System (GS)

Geo Technical Engineering - I

Time : Three Hours

Maximum Marks : 70

Note: i) Answer any five questions.
ii) All questions carry equal marks.

1. Explain classification systems based on particle size and consistency limits of soils.

2. Explain "Sand replacement method" of field density determination.

3. Discuss "Burmister method" to determine pre-consolidation pressure.

4. How to determine "Coefficient of consolidation" by logarithm of Time fitting method.

5. Draw failure Mohr's envelope for specimens for total stress tested under consolidated drained condition.

6. Discuss stress distribution beneath loaded areas by Boussinesq's and Westergaard's analysis.

7. Describe the Swedish slip circle method for stability analysis of both type of soil.

8. Answer any four of the following:
   a) Discuss consistency limits of soils.
   b) Define "Time-settlement" curve.
   c) Discuss in short "Unconfined compression test".
   d) Write short notes on "Stability of Earth Dams".
   e) Discuss the meaning of reinforced earth retaining structure.
   f) List the assumptions in Terzaghi theory.

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