Total No. of Questions: 8]

[Total No. of Printed Pages: 2

Roll No

CE-604 (GS)

B.E. VI Semester

Examination, May 2018

Grading System (GS)

Geo-Technical Engineering - I

Time: Three Hours

Maximum Marks: 70

Note: i) Answer any five questions.

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ii) All questions carry equal marks.

- 1. Explain formation of soil, soil composition and structure.
- 2. Discuss determination of permeability in laboratory and field.
- Detailed notes on: rgpvonline.com
 - Boussinesq and water gaurd's analysis
 - Consolidation test
- Discuss analytical and graphical methods of stability analysis.
- Describe the types of slope failures.
 - Discuss the selection of shear strength parameter in slope stability.

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- 6. Discuss the graphical method of determination of earth pressure on cohesive soil.
- Describe consistency limits of soils.
 - Determination of preconsolidation pressure by Burmister method.

8. Answer any four of the following:

- Arching of soils
- Terzaghi theory

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- Triaxial compression test
- Mohr's stress circle
- Coulomb's theory
- Formation of clay minerals on its behaviour

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