Sixth Semester B.E. Degree Examination, Dec.2013 / Jan. 2014 Geotechnical Engineering - II

Time: 3 hrs.

Market 100

Note: 1. Answer any FTVE full questions, selecting atleast TWO questions from each part. 2. Assume missing data if any.

PART - A

- a. Define terms with reference to sampling tube, with a neat sketch. i) Inside clearance ratio
 ii) Outside clearance ratio
 iii) Area ratio
 iv) Recovery ratio. Indicate.
 Indicate the recommended values to get least disturbed samples. (08 Marko)
 - Explain briefly the spacing and depth of boring or open pit adopted for various civil engineering structures.
 - e. Estimate ground water table, with the following data: Depth upto which water boiled out = 15.0m; Water rise in first day = 0.80m; Water rise in second day = 0.70m; Water rise in third day = 0.60m. (06 Marks)
- 2 a. What are the assumptions and limitations of Boussinesq theory of concentrated loads to determine stresses in soil? (04 Marks)
 - Explain contact pressure distribution in soils.

(06 Marks)

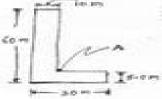
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c. Construct the Newmark's chart with an influence factor of 0.005 with 20 sectors and find the vertical stress a point A Fig.Q2(c) at a depth of 15m for the uniformly loaded area with a load of 250kN/m².
(10 Marks)

Fig.Q2(c)



- 3 a. What is flownet? List the properties of flow nets. Indicate the uses of flow net, (08 Marks)
 - b. What is Phreatic line? Enumerate the steps to obtain phreatic line in earther dams with filter. (08 Marks)
 - c. For a homogeneous earthern dam 52m height and 2.0m free board. The flow net has 22 potential lines and 5 flow channels. Calculate the discharge per meter length of the dam. The K of the soil is 22 × 10⁻⁶ m/s. (04 Marks)
- 4 a. What are the assumptions and limitations of Rankine and Coulomb's earth pressure theories? (67 Marks)
 - b. Explain Culmann's graphical method of finding out the Active earth pressure. (07 Marks)
 - c. A retaining wall retains a cohensionless back fill with a height of 7.5m. The top 3.0m of the backfill has a unit weight of 18kN/m³ and \$\phi = 30°\$. Lower 4.5m of the backfill has unit weight of 24kN/m³ and \$\phi = 20°\$. Obtain pressure distribution diagram and determine the total active earth pressure and its point of application.
 (06 Marks)

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