

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

Time: 3 hrs.

Max. Marks:100

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

PART - A

1. 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. (08 Marks)
 Indicate the recommended values to get least disturbed samples.
 b. Explain briefly the spacing and depth of boring or open pit adopted for various civil engineering structures. (06 Marks)
 c. 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)
 b. Explain contact pressure distribution in soils. (06 Marks)
 c. Construct the Newmark's chart with an influence factor of 0.005 with 20 sectors and find the vertical stress at point A Fig.Q2(c) at a depth of 15m for the uniformly loaded area with a load of 250kN/m^2 . (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 earthen dams with filter. (08 Marks)
 c. For a homogeneous earthen 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 $22 \times 10^{-6} \text{ m/s}$. (04 Marks)
4. a. What are the assumptions and limitations of Rankine and Coulomb's earth pressure theories? (07 Marks)
 b. Explain Culmann's graphical method of finding out the Active earth pressure. (07 Marks)
 c. A retaining wall retains a cohesionless back fill with a height of 7.5m. The top 3.0m of the backfill has a unit weight of 18kN/m^3 and $\phi = 30^\circ$. Lower 4.5m of the backfill has unit weight of 24kN/m^3 and $\phi = 20^\circ$. Obtain pressure distribution diagram and determine the total active earth pressure and its point of application. (06 Marks)



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1. Understanding the eBook Msbte Sample Question Paper 5th Sem Civil Engg
 - The Rise of Digital Reading Msbte Sample Question Paper 5th Sem Civil Engg
 - Advantages of eBooks Over Traditional Books
2. Identifying Msbte Sample Question Paper 5th Sem Civil Engg
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Msbte Sample Question Paper 5th Sem Civil Engg
 - User-Friendly Interface
4. Exploring eBook Recommendations from Msbte Sample Question Paper 5th Sem Civil Engg
 - Personalized Recommendations
 - Msbte Sample Question Paper 5th Sem Civil Engg User Reviews and Ratings
 - Msbte Sample Question Paper 5th Sem Civil Engg and Bestseller Lists

5. Accessing Msbte Sample Question Paper 5th Sem Civil Engg Free and Paid eBooks
 - Msbte Sample Question Paper 5th Sem Civil Engg Public Domain eBooks
 - Msbte Sample Question Paper 5th Sem Civil Engg eBook Subscription Services
 - Msbte Sample Question Paper 5th Sem Civil Engg Budget-Friendly Options
6. Navigating Msbte Sample Question Paper 5th Sem Civil Engg eBook Formats
 - ePub, PDF, MOBI, and More
 - Msbte Sample Question Paper 5th Sem Civil Engg Compatibility with Devices
 - Msbte Sample Question Paper 5th Sem Civil Engg Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Msbte Sample Question Paper 5th Sem Civil Engg
 - Highlighting and Note-Taking Msbte Sample Question Paper 5th Sem Civil Engg
 - Interactive Elements Msbte Sample Question Paper 5th Sem Civil Engg
8. Staying Engaged with Msbte Sample Question Paper 5th Sem Civil Engg
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Msbte Sample Question Paper 5th Sem Civil Engg
9. Balancing eBooks and Physical Books Msbte Sample Question Paper 5th Sem Civil Engg
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Msbte Sample Question Paper 5th Sem Civil Engg
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Msbte Sample Question Paper 5th Sem Civil Engg
 - Setting Reading Goals Msbte Sample Question Paper 5th Sem Civil Engg
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Msbte Sample Question Paper 5th Sem Civil Engg
 - Fact-Checking eBook Content of Msbte Sample Question Paper 5th Sem Civil Engg
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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