

Code No: 55004

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year I Semester Examinations, September - 2021

GEOTECHNICAL ENGINEERING - I

(Civil Engineering)

Time: 3 hours

Max. Marks: 75

Answer any five questions
All questions carry equal marks

- 1.a) Explain various types of soil structures with the help of a neat sketch.
b) Explain about two-phase system and three-phase system and their importance in mass-volume relationship. [7+8]
- 2.a) Explain the relation between toughness index, plasticity index and flow index.
b) Calculate specific gravity of solids if mass specific gravity of saturated clay is 1.8 with the water content of 35%. On oven drying, the mass specific gravity is 1.7. Also estimate shrinkage limit of the soil. [7+8]
- 3.a) Explain about permeability of layered soils.
b) A laboratory test for a soil sample was conducted for which coefficient of permeability obtained was 3.4×10^{-8} cm/sec. The diameter of the variable head permeameter is 10cm and its length is 12cm. The time taken for the fall in the stand pipe from 90cm to 60cm is 5min. Determine the diameter of the standpipe. [7+8]
- 4.a) Explain the characteristics and uses of flownets.
b) A clay layer is at a depth of 6m from the ground under a saturated sand layer. The water table is 2.5m below the ground level. If the density of saturated sand is 18.5 kN/m^3 , determine the effective stress on the top of the clay layer. Assume capillary fringe up to 1.5m above the water table. [7+8]
- 5.a) Explain about Newmark's influence chart for irregular areas with the help of neat sketch.
b) A concentrated load of 200kN acts on the surface. Determine the vertical stress at a depth of 8m beneath the load and at a radial distance of 6m using Boussinesq's and Westergaard's theory. [7+8]
- 6.a) Explain factors affecting compaction.
b) Explain about compaction control and its measures. [7+8]
- 7.a) Explain about logarithm of time fitting method for calculating coefficient of consolidation.
b) A clay soil sample was tested in the laboratory and it shows a decrease in void ratio from 1.15 to 1.05 when the pressure was increased from 0.10 kg/cm^2 to 0.20 kg/cm^2 . Determine coefficient of compressibility and coefficient of volume compressibility. [7+8]
- 8.a) Explain tri-axial test for any two drainage condition.
b) Explain about shear strength of sands. [7+8]

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1. Understanding the eBook Geotechnical Engineering Diploma Question Papers
 - The Rise of Digital Reading Geotechnical Engineering Diploma Question Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Geotechnical Engineering Diploma Question Papers
 - 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 Geotechnical Engineering Diploma Question Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Geotechnical Engineering Diploma Question Papers
 - Personalized Recommendations
 - Geotechnical Engineering Diploma Question Papers User Reviews and Ratings
 - Geotechnical Engineering Diploma Question Papers and Bestseller Lists
5. Accessing Geotechnical Engineering Diploma Question Papers Free and Paid eBooks

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 - Geotechnical Engineering Diploma Question Papers eBook Subscription Services
 - Geotechnical Engineering Diploma Question Papers Budget-Friendly Options
6. Navigating Geotechnical Engineering Diploma Question Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Geotechnical Engineering Diploma Question Papers Compatibility with Devices
 - Geotechnical Engineering Diploma Question Papers Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Geotechnical Engineering Diploma Question Papers
 - Highlighting and Note-Taking Geotechnical Engineering Diploma Question Papers
 - Interactive Elements Geotechnical Engineering Diploma Question Papers
 8. Staying Engaged with Geotechnical Engineering Diploma Question Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Geotechnical Engineering Diploma Question Papers
 9. Balancing eBooks and Physical Books Geotechnical Engineering Diploma Question Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Geotechnical Engineering Diploma Question Papers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Geotechnical Engineering Diploma Question Papers
 - Setting Reading Goals Geotechnical Engineering Diploma Question Papers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Geotechnical Engineering Diploma Question Papers
 - Fact-Checking eBook Content of Geotechnical Engineering Diploma Question Papers
 - 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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