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Fifth Semester B.E. Degree Examination, Dec.2023/Jan.2024 Geotechnical Engineering

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

1. a. With the help of 3-phase diagram, explain:
 (i) Void ratio (ii) Porosity (iii) Air content (iv) Degree of saturation (10 Marks)
- b. With usual notations, derive the relation $\gamma_d = \frac{(1 - n_v) G \gamma_w}{W G + 1}$. (10 Marks)

OR

2. a. Explain the following:
 (i) Liquid limit (ii) Shrinkage limit (iii) Plastic limit (10 Marks)
 (iv) Activity of clay (v) Relative density
- b. Classify following soils as per IS classification:

Soil	% passing 4.75 mm	% passing 75 micron	C_u	C_c	W
A	98	02	6.7	1.2	$I_p = 2.2$
B	100	100	-	-	$W_L = 400$ $W_p = 50$

(10 Marks)

Module-2

3. a. Define permeability and explain factors affecting permeability. (10 Marks)
- b. The discharge of water collected from a constant head permeameter in a period of 15 minutes is 400 ml. The internal diameter of permeameter is 6cm and measured difference in heads between the two gauging points 15 cm apart is 40. Calculate the coefficient of permeability. If the dry weight of 15 cm long sample is 7N and specific gravity of the solids is 2.65. Calculate seepage velocity. (10 Marks)

OR

4. a. Explain effective stress and total stress concept. (08 Marks)
- b. Write a note on quick sand phenomena. (06 Marks)
- c. Explain impact of effective stress in construction of structures. (06 Marks)

Module-3

5. a. Discuss the factors affecting compaction of soils. (05 Marks)
- b. Write difference between standard and modified proctor's compaction. (03 Marks)
- c. The following are the results of compaction test:

Water content (%)	8	11.5	14.5	17.5	19.5	21.5
Mass of wet soil (gm)	1700	1900	2000	1980	1950	1920

If volume of mould used was 950 cc and specific gravity was 2.65:

- (i) Draw dry density versus water content curve, find OMC and MDD. (12 Marks)
- (ii) Plot 100% saturation line

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Geotechnical Engineering Education and Training I Antonescu, I Manoliu, N Radulescu, 2020-09-10 This volume contains papers and reports from the Conference held in Romania June 2000 The book covers many topics for example place role and content of geotechnical engineering in civil environmental and earthquake engineering **Education and Training in Geo-Engineering Sciences** Iacint Manoliu, Nicoleta Radulescu, 2008-05-20 Covering a broad range of topics curricular matters in geo engineering education teaching learning and assessment in geo engineering education challenges in geotechnical engineering education issues in education and training in Engineering Geology the link university professional world in geo engineering this book will be invaluable to university teachers academics and professionals involved in education and training in geo engineering sciences *Bulletin of the Institution of Engineers (India)*. Institution of Engineers (India), 1987 **Civil Engineering**, 2002 **Civil Engineering and Public Works Review**, 1968 **The Structural Engineer**, 1988 The Journal of the Institution of Engineers, Australia Institution of Engineers, Australia, 1974 Proceedings ... International Conference on Ground Control in Mining, **Who's Who in Science and Engineering 2008-2009** Who's Who Marquis, Marquis Who's Who, 2007-12 **The British National Bibliography** Arthur James Wells, 1995 *Who's who in America* Harriet L. Tiger, 1995 *International Book of Honor* American Biographical Institute, 1987 **Solved Problems in Geotechnical Engineering** Ravi Kumar Sharma, Rachit Sharma, 2024-05 Problems in Geotechnical Engineering is a comprehensive guide that aims to provide readers with a thorough understanding of the subject This book covers a wide range of problems commonly encountered in Geotechnical Engineering courses at the undergraduate level The author has solved numerous problems of different types and included them in various chapters ensuring that readers can grasp the concepts effectively To aid comprehension suitable diagrams and illustrations have been thoughtfully incorporated in the relevant problem sections In addition this book is a valuable resource for exam preparation It includes solved previous question papers from competitive examinations such as GATE engineering services and administrative services These solved papers offer practical insights into the types of problems that students may encounter in these exams To further enhance learning each chapter concludes with a sufficient number of unsolved problems These enable students to practice and hone their problem solving skills ensuring their readiness for different examinations Overall Problems in Geotechnical Engineering equips students with comprehensive knowledge and understanding of the subject Whether preparing for exams or seeking a deeper understanding of geotechnical engineering problems this book is an indispensable resource *Civil Engineering Objective Questions Ebook-PDF* Chandresh Agrawal, nandini books, 2025-10-13 SGN The Ebook Civil Engineering Objective Questions Ebook PDF Covers Previous Years Papers Of Various Exams With Answers *PE Civil* National Council of Examiners for Engineering and Surveying (NCEES), 2023 *Geotechnical Engineering Exam Review* Cybellium, Welcome to the forefront of knowledge with Cybellium your trusted partner in

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