

ELECTRICAL ENGINEERING LEVEL 6

Mathematics End of Term Exams

Answer all questions

Time: 2 hrs

1. Solve

(a) $\text{Log}(x-1) + \text{log}(x+8) = 2\text{log}(x+2)$

(b) $3^{2n-1} = 7^{n+2}$

(c) $\text{Log } 2x^2 + \text{log } x = \text{log } 2 - \text{log } x$

(d) $\text{Log}(x^2+8) - \text{log}(2x) = \text{log } 3$ (20 mks)

2. (a) Determine the number of terms whose value is 22 in the series

$2 \frac{1}{2}, 4, 5 \frac{1}{2}, 7, \dots$ (4 mks)

b) An oil company bores a hole 120m deep. Estimate the cost of boring if the cost is Ksh 700 for drilling the first metre with an increase in cost of Ksh 30 per metre for each succeeding metre. (6 marks)

c) The 1st, 10th and last terms of an A.P are 9,40 and 4255.5 respectively. Find:

(i) the number of terms

(ii) sum of all terms

(iii) the 70th term (10 marks)

3. (a) If $Z_1 = 1 - j3$, $Z_2 = -2 + j5$ and $Z_3 = -3 - j4$, determine giving your answer in a+jb form and polar form

(i) Z_1/Z_3

(ii) $Z_1 Z_2 / (Z_1 + Z_2)$ (6 marks)

(b) Two impedances $Z_1 = (3 + j6)$ and $Z_2 = (4 - j3)$ are connected in series to a supply voltage of 120V. Determine the magnitude of current and its phase angle relative to the voltage. (4 marks)

(c) In a schering bridge circuit

$Z_x = (R_x - jX_{c3})$, $Z_2 = -jX_{c2}$, $Z_3 = ((R_3)(-jX_{c3})) / (R_3 - jX_{c3})$ and $Z_4 = R_4$ when at balance $Z_x Z_3 = Z_2 Z_4$

Show that at balance $R_x = C_3 R_4 / C_2$ and $C_x = C_2 R_3 / R_4$ (10 marks)

4. (a) Prove that:

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Christian Drosten



California Mathematics Level 6:

Scoring Rubrics in the Classroom Judith Arter, Jay McTighe, 2000-09-14 A practical guide to more effective assessment for improved student learning Learn how to be more consistent in judging student performance and help your students become more effective at assessing their own learning This book offers a practical approach to assessing challenging but necessary performance tasks like creative writing real world research projects and cooperative group activities Judith Arter and Jay McTighe experts in the field of assessment wrote *Scoring Rubrics in the Classroom* to help you achieve three main goals Clarify the targets of instruction especially for hard to define problem solving Provide valid and reliable assessment of student learning Improve student motivation and achievement by helping students understand the nature of quality for performances and products Each chapter is framed by an essential question and includes illustrative stories practical examples tips and cautions and a summary of key points and recommended resources for further information The resources section contains a wealth of rubrics to adopt or adapt Teachers and administrators will find this an essential resource in increasing teacher effectiveness and student performance *Statewide Performance Standards for the California Learning Assessment System* California. Department of Education, 1993 **Resources in Education**, 1990 **Mathematics Framework for California Public Schools** California. State Curriculum Commission. Advisory Committee on Mathematics, 1972 Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1972 **The ETS Test Collection Catalog** Educational Testing Service. Test Collection, 1993 The major source of information on the availability of standardized tests Wilson Library Bulletin Covers commercially available standardized tests and hard to locate research instruments **Program Quality Review Training Materials for Elementary and Middle Level Schools** California. Department of Education, 1994 Catalog of Copyright Entries Library of Congress. Copyright Office, 1970 Year/Glance Pacing Chrt Gr1 CA Math 02 HSP, 2001 *Curriculum Development Library*, 1980 *California. Court of Appeal (4th Appellate District). Division 2. Records and Briefs* California (State)., Consolidated Case s E003045_x000D_E003621 California. Court of Appeal (2nd Appellate District). Records and Briefs California (State)., Evaluation of the California Mathematics Project California Postsecondary Education Commission, 1986 **McGraw-Hill Mathematics** McGraw-Hill Companies, 2002* *California. Court of Appeal (6th Appellate District). Records and Briefs* California (State)., **The Best Web Sites for Teachers** Vicki F. Sharp, Martin G. Levine, Richard M. Sharp, 2002 **Standardized Tests Used for Higher Education Admission and Placement in California**, 1989 **Thirteenth Annual Catalogue, Throop Polytechnic Institute, Pasadena, California, 1904-1905** Throop Polytechnic Institute, 1904 **California. Court of Appeal (1st Appellate District). Records and Briefs** California (State)., *Elementary and Middle School Mathematics* John A. Van de Walle, 1998 John A Van de Walle has written a book that helps readers make sense of mathematics and become confident in their ability to teach mathematics to children K to 8 *Elementary and Middle School Mathematics*

consists of 16 chapters reflecting the view that all mathematics can be taught through a problem solving approach that motivates children and builds their confidence as they learn This book thoroughly discusses the new standards and clearly develops four key aspects of teaching mathematics the nature of mathematics as a science of pattern and order an understanding of how children learn mathematics a problem solving view of teaching mathematics and specific methods for integrating assessment with instruction Simple yet effective classroom activities are woven throughout the chapters as well as suggestions for technology and literature

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