

GRADE 12
MATHEMATICS COMMON TEST
 Functions and Trigonometry



30th March 2020
 80 Marks

TOTAL:

Answer all questions, are several questions.
 Questions 1-10 are 2 marks each. Questions 11-15 are 4 marks each.

Questions 1

1.1 Given

- 1.1.1 Sketch the graphs of $f(x) = 2x^2 - 8x + 6$ and $g(x) = 2x^2 - 4x + 6$ on the set of axes. [2]
 1.1.2 Give the equation of $f(x)$ for the line $y = 0$. [2]

1.2 Given $f(x) = 2x^2 - 8x + 6$, determine the equation of the reflection of f in the line

- 1.2.1 $y = 4$. [4]
 1.2.2 $x = 3$. [4]

Questions 2

2.1 Parallelogram is given by $f(x) = 2x^2 - 8x + 6$

- 2.1.1 Determine the equation of f . What number of f is the basis p is. [2]
 2.1.2 Give a number why the inverse of f is not a function. [2]
 2.1.3 Sketch the graph of the function $f(x) = 2x^2 - 8x + 6$. [4]
 Show intervals with the axis and label with other points. [2]
 2.1.4 Determine the value(s) of x for which $f(x) = 10$. [2]

[TOTAL: 40]

Grade 12 Mathematics Common Test 2014

Daniel J. Brahier



Grade 12 Mathematics Common Test 2014:

The End of Public Schools David W. Hursh, 2015-10-16 The End of Public Schools analyzes the effect of foundations corporations and non governmental organizations on the rise of neoliberal principles in public education By first contextualizing the privatization of education within the context of a larger educational crisis and with particular emphasis on the Gates Foundation and influential state and national politicians it describes how specific policies that limit public control are advanced across all levels Informed by a thorough understanding of issues such as standardized testing teacher tenure and charter schools David Hursh provides a political and pedagogical critique of the current school reform movement as well details about the increasing resistance efforts on the part of parents teachers and the general public **Simplifying**

Common Assessment Kim Bailey, Chris Jakicic, 2016-11-07 Built on the process featured in Common Formative Assessment A Toolkit for PLCs at Work this book demonstrates how educators can develop effective and efficient assessments The authors simplify assessment development to give teacher teams the confidence to write and use team designed common formative assessments that help ensure all students master essential skills and concepts Design tasks and assessments that feature the greater rigor and complexity the new standards require Use assessment data to make adjustments that increase student learning Explore possible team structures and practices that foster successful use of common assessments Benefits Learn the different purposes that wide angle questions and close up questions serve in reaching assessment goals Understand different types of assessments and what the data gained from each of them can reveal about student learning Frame assessment and feedback methods to pursue the end goal of learning for all Use templates and protocols to unwrap essential learning standards create performance tasks plan appropriate assessments and analyze data Discover a road map that can help guide your work with common assessments Contents 1 Framing the Power of Assessment in Professional Learning Communities 2 Starting With the End in Mind 3 Considering Rigor and Complexity 4 Intentionally Planning of Instruction and Assessment 5 Writing Questions That Work 6 Using Data to Support Student Learning 7 Focusing on Feedback and Grappling With Grading 8 Using Common Formative Assessments in Less Traditional Settings Appendix Road Map for Implementing Common Assessments **Oswaal CDS (Combined Defence Services) 14 Solved Papers**

Year-wise 2018-2024 (II) | General Knowledge | For 2025 Exam Oswaal Editorial Board, 2024-09-26 Union Public Service Commission UPSC every year conducts a CDS exam twice a year for candidates who wish to make their career in the defence forces Army Navy and Air Force The Combined Defence Services Examination is conducted for admission to the Indian Military Academy IMA Indian Naval Academy INA Air Force Academy AFA and Officers Training Academy OTA The CDS selection process comprises two stages written exams and SSB interviews The final selection of candidates is done based on the performance in both stages After completing training at IMA INA AFA and OTA candidates are selected for the post of Lieutenant In 2024 Approx 4.5 Lacs students applied for the CDS examination the opportunity you get from the Indian

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Theresa J. Gurl, Limarys Caraballo, Leslee Grey, John H. Gunn, David Gerwin, Héfer Bembenuatty, 2016-02-19 This volume reviews the background of mandated teacher performance assessment with an emphasis on policy privatization and professionalization The authors discuss the potential impact of mandated teacher performance assessments on teacher education in the content areas of mathematics English and social studies The perspectives and empirical research examined in this conceptual analysis illustrate the various ways in which the Stanford Center for Assessment Learning and Equity SCALE Teacher Performance Assessment edTPA promises to restructure teacher education in the United States The authors consider both the affordances and the constraints that teacher performance assessments offer for teacher preparation programs and conclude by discussing the implications of the intersections among policy privatization professionalization and performance assessments of teachers as well as the relationship between performance assessments and teacher education The impact of the edTPA on the development of signature pedagogies in teacher education is also discussed *UPSC Power Bank: 400+ MCQs for UPSC and State PSCs and exams Art & Culture (For Latest Edition)* Oswaal Editorial Board, 2024-10-12 100% Updated with the Latest Pattern of Questions asked in UPSC Prelims Extensive Practice with 1000 MCQs based on UPSC State PSCs latest pattern Flash Facts with Crisp revision notes with smart mind maps Concept Clarity with Detailed Elaborated Solutions 100% Exam Readiness with Study Approach Video Trend Analysis Provided by UPSC Experts *UPSC Power Bank: 1000+ MCQs for UPSC and State PSCs and exams Science & Technology (For Latest Edition)* Oswaal Editorial Board, 2024-10-12 100% Updated with the Latest Pattern of Questions asked in UPSC Prelims Extensive Practice with 1000 MCQs based on UPSC State PSCs latest pattern Flash Facts with Crisp revision notes with smart mind maps Concept Clarity with Detailed Elaborated Solutions 100% Exam Readiness with Study Approach Video Trend Analysis Provided by UPSC Experts **UPSC Power Bank: 1000+ MCQs for UPSC and State PSCs and exams Modern History (For Latest Edition)** Oswaal Editorial Board, 2024-10-12 100% Updated with the Latest Pattern of Questions asked in UPSC Prelims Extensive Practice with 1000 MCQs based on UPSC State PSCs latest pattern Flash Facts with Crisp revision notes with smart mind maps Concept Clarity with Detailed Elaborated Solutions 100% Exam Readiness with Study Approach Video Trend Analysis Provided by UPSC Experts *Oswaal JEE Advanced 47 Years' Chapter-wise and Topic-wise Solved Papers, Chemistry (For Exam 2025)* Oswaal Editorial Board, 2024-10-12 Benefits of the product 100% Updated with Fully Solved 2024

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research evidence in education policy integrating research findings with value based policy ideas designing policies with incentives for research use built into their rules and organizational structures and training policy analysts to promote the use of research in policymaking venues Teaching Secondary and Middle School Mathematics Daniel J. Brahier,2020-03-09

Teaching Secondary and Middle School Mathematics combines the latest developments in research technology and standards with a vibrant writing style to help teachers prepare for the excitement and challenges of teaching secondary and middle school mathematics The book explores the mathematics teaching profession by examining the processes of planning teaching and assessing student progress through practical examples and recommendations Beginning with an examination of what it means to teach and learn mathematics the reader is led through the essential components of teaching concluding with an examination of how teachers continue with professional development throughout their careers Hundreds of citations are used to support the ideas presented in the text and specific websites and other resources are presented for future study by the reader Classroom scenarios are presented to engage the reader in thinking through specific challenges that are common in mathematics classrooms The sixth edition has been updated and expanded with particular emphasis on the latest technology resources and standards The reader is introduced to the ways that students think and how to best meet their needs through planning that involves attention to differentiation as well as how to manage a classroom for success Features include The entire text has been reorganized so that assessment takes a more central role in planning and teaching Unit 3 of 5 now addresses the use of summative and formative assessments to inform classroom teaching practices A new feature Links and Resources has been added to each of the 13 chapters While the book includes a substantial listing of citations and resources after the chapters five strongly recommended and practical resources are spotlighted at the end of each chapter as an easy reference to some of the most important materials on the topic Approximately 150 new citations have either replaced or been added to the text to reflect the latest in research materials and resources that support the teaching of mathematics A Quick Reference Guide has been added to the front of the book to assist the reader in identifying the most useful chapter features by topic A significant revision to Chapter 13 now includes discussions of common teaching assessments used for field experiences and licensure as well as a discussion of practical suggestions for success in methods and student teaching experiences Chapter 9 on the practical use of classroom technology has been revised to reflect the latest tools available to classroom teachers including apps that can be run on handheld personal devices An updated Instructor s Manual features a test bank sample classroom activities Powerpoint slides chapter summaries and learning outcomes for each chapter and can be accessed by instructors online at www.routledge.com 9780367146511 Over-Tested and Under-Prepared Bob Sornson,2022-11-23

Pressured by standardized testing and rigid pacing guidelines many schools are forced to cover too much content too quickly without being able to meet the needs of individual students In this powerful book from acclaimed author and presenter Bob Sornson you ll learn how shifting from curriculum based instruction to competency based

personalized learning can help students become more successful confident and engaged learners Each chapter is easy to digest and provides compelling research strategies and anecdotes to inspire conversation and action This second edition provides updated statistics and examples of schools successfully using competency based learning models to help you bring about meaningful change Teachers administrators and community leaders will all find practical resources and a clear rationale for transforming our current educational system into a new dynamic model of teaching and learning

Education for All 2000-2015: Achievements and challenges UNESCO,2015-04-08 Literaturverz S 414 459 ECGBL2014-8th European Conference on Games Based Learning Carsten Busch,2014-11-11 *Social Studies for Young Children* Gayle Mindes,2013-11-01 Social studies is at the heart of content in education and takes on society's best hopes for helping children become good citizens and winners in the global economy In its comprehensive scope Social Studies for Young Children Preschool and Primary Curriculum Anchor fulfills the promise of social studies as an integrator of the knowledge and experiences of young children Filled with strategies activities and resources this book helps teachers develop a holistic culturally relevant approach to social studies and social learning It surveys the relevant state and national standards and offers essential guidance on how to integrate them into the curriculum while at the same time looking beyond the tests to foster young social scientists development into critical thinkers and lifelong learners Special features include Children's literature to foster social studies understanding Digital media for teaching and learning Emphasis on cross disciplinary synthesis

Handbook on Measurement, Assessment, and Evaluation in Higher Education Charles Secolsky,D. Brian Denison,2017-07-31 In this valuable resource well known scholars present a detailed understanding of contemporary theories and practices in the fields of measurement assessment and evaluation with guidance on how to apply these ideas for the benefit of students and institutions Bringing together terminology analytical perspectives and methodological advances this second edition facilitates informed decision making while connecting the latest thinking in these methodological areas with actual practice in higher education This research handbook provides higher education administrators student affairs personnel institutional researchers and faculty with an integrated volume of theory method and application

Empowered Educators in Canada Carol Campbell,Ken Zeichner,Ann Lieberman,Pamela Osmond-Johnson,2017-03-13 BEST PRACTICES FROM CANADA'S HIGH PERFORMING SCHOOL SYSTEMS Empowered Educators in Canada is one volume in a series that explores how high performing educational systems from around the world achieve strong results The anchor book Empowered Educators How High Performing Systems Shape Teaching Quality Around the World is written by Linda Darling Hammond and colleagues with contributions from the authors of this volume Empowered Educators in Canada details the core commonalities that exist across Canada with special emphasis on the localized nature of the systems a hallmark of Canadian education Canada boasts a highly educated population and the provinces territories truly value education as evidenced by the significant proportion of public funds allocated to schooling Operated by the provinces and territories

participation in kindergarten primary and secondary education is close to 100% across the nation In addition to offering traditional academics secondary education includes opportunities for students to attend technical and vocational programs To demonstrate exemplary education systems the authors examine two top performing jurisdictions Alberta and Ontario which have developed strong supports for teacher development Canadian teachers are highly qualified and salary scales in all jurisdictions are typically based on a teacher s level of education and years of experience While Canada has enjoyed much educational success the education of First Nations students has historically been one of the country s more controversial and contentious issues Overall Canada is a country that is proud of its education system and places a high value on and participation in publicly funded education

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