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B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2013.

Second Semester

Civil Engineering

MA 2161/MA 22/080030004 — MATHEMATICS — II

(Common to all branches)

(Regulation 2008)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Find the particular integral of $(D^2 - 2D + 1)y = \cosh x$.
2. Solve $x^2 \frac{d^2 y}{dx^2} + 4x \frac{dy}{dx} + 2y = 0$.
3. Find the directional derivative of $\phi = xyz$ at $(1, 1, 1)$ in the direction of $\vec{i} + \vec{j} + \vec{k}$.
4. If \vec{A} and \vec{B} are irrotational, prove that $\vec{A} \times \vec{B}$ is solenoidal.
5. Find the image of the line $x = k$ under the transformation $w = \frac{1}{z}$.
6. Find the fixed points of mapping $w = \frac{6z - 9}{z}$.
7. Evaluate $\int_C \frac{3z^2 + 7z + 1}{z - 1} dz$, where C is $|z| = \frac{1}{2}$.
8. Find the residue of $\frac{1 - e^{2z}}{z^4}$ at $z = 0$.
9. Find the Laplace transform of $\frac{t}{e^t}$.
10. Verify initial value theorem for the function $f(t) = ae^{-bt}$.

PART B — (5 × 16 = 80 marks)

11. (a) (i) Solve the differential equation $\frac{d^2 y}{dx^2} + 2 \frac{dy}{dx} + y = \frac{e^{-x}}{x^2}$ by the method of variation of parameters. (8)
- (ii) Solve : $(3x + 2)^2 \frac{d^2 y}{dx^2} + 3(3x + 2) \frac{dy}{dx} - 36y = 3x^2 + 4x + 1$. (8)
- Or
- (b) (i) Solve the simultaneous differential equations : $\frac{dx}{dt} + 5x - 2y = t$;
 $\frac{dy}{dt} + 2x + y = 0$. (8)
- (ii) Solve $x^2 \frac{d^2 y}{dx^2} + 4x \frac{dy}{dx} + 2y = x^2 + \frac{1}{x^2}$. (8)

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Mathematics Paper June 2013 Common

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Mathematics Paper June 2013 Common:

Handbook of Response to Intervention Shane R. Jimerson, Matthew K. Burns, Amanda M. VanDerHeyden, 2015-09-21 The Second Edition of this essential handbook provides a comprehensive updated overview of the science that informs best practices for the implementation of response to intervention RTI processes within Multi Tiered Systems of Support MTSS to facilitate the academic success of all students The volume includes insights from leading scholars and scientist practitioners to provide a highly usable guide to the essentials of RTI assessment and identification as well as research based interventions for improving students reading writing oral and math skills New and revised chapters explore crucial issues define key concepts identify topics warranting further study and address real world questions regarding implementation Key topics include Scientific foundations of RTI Psychometric measurement within RTI RTI and social behavior skills The role of consultation in RTI Monitoring response to supplemental services Using technology to facilitate RTI RTI and transition planning Lessons learned from RTI programs around the country The Second Edition of the Handbook of Response to Intervention is an essential resource for researchers graduate students and professionals scientist practitioners in child and school psychology special and general education social work and counseling and educational policy and politics The Math Myth Andrew Hacker, 2010-05-25 A New York Times bestselling author looks at mathematics education in America when it s worthwhile and when it s not Why do we inflict a full menu of mathematics algebra geometry trigonometry even calculus on all young Americans regardless of their interests or aptitudes While Andrew Hacker has been a professor of mathematics himself and extols the glories of the subject he also questions some widely held assumptions in this thought provoking and practical minded book Does advanced math really broaden our minds Is mastery of azimuths and asymptotes needed for success in most jobs Should the entire Common Core syllabus be required of every student Hacker worries that our nation s current frenzied emphasis on STEM is diverting attention from other pursuits and even subverting the spirit of the country Here he shows how mandating math for everyone prevents other talents from being developed and acts as an irrational barrier to graduation and careers He proposes alternatives including teaching facility with figures quantitative reasoning and understanding statistics Expanding upon the author s viral New York Times op ed The Math Myth is sure to spark a heated and needed national conversation not just about mathematics but about the kind of people and society we want to be Hacker s accessible arguments offer plenty to think about and should serve as a clarion call to students parents and educators who decry the one size fits all approach to schooling Publishers Weekly starred review *Cambridge International AS and A Level Mathematics: Pure Mathematics 1 Coursebook* Hugh Neill, Douglas Quadling, Julian Gilbey, 2016-07-14 Cambridge AS and A Level Mathematics is a revised series to ensure full syllabus coverage This coursebook has been revised and updated to ensure that it meets the requirements for the Pure Mathematics 1 P1 unit of Cambridge AS and A Level Mathematics 9709 Additional materials have been added to sections on quadratics coordinate geometry vectors and differentiation All of the

review questions have been updated to reflect changes in the style of questions asked in the course

Mathematics Education Jacqueline Dewar, Pao-sheng Hsu, Harriet Pollatsek, 2016-11-26 Many in the mathematics community in the U S are involved in mathematics education in various capacities This book highlights the breadth of the work in K 16 mathematics education done by members of US departments of mathematical sciences It contains contributions by mathematicians and mathematics educators who do work in areas such as teacher education quantitative literacy informal education writing and communication social justice outreach and mentoring tactile learning art and mathematics ethnomathematics scholarship of teaching and learning and mathematics education research Contributors describe their work its impact and how it is perceived and valued In addition there is a chapter co authored by two mathematicians who have become administrators on the challenges of supporting evaluating and rewarding work in mathematics education in departments of mathematical sciences This book is intended to inform the readership of the breadth of the work and to encourage discussion of its value in the mathematical community The writing is expository not technical and should be accessible and informative to a diverse audience The primary readership includes all those in departments of mathematical sciences in two or four year colleges and universities and their administrators as well as graduate students Researchers in education may also find topics of interest Other potential readers include those doing work in mathematics education in schools of education and teachers of secondary or middle school mathematics as well as those involved in their professional development

What Lies Ahead for America's Children and Their Schools Richard Sousa, 2014-03-01 The coming decade holds immense potential for dramatic improvement in U S education and in the achievement of American children and in this volume members of the Hoover Institution's Koret Task Force on K 12 Education examine both the potential gains and the pitfalls that lie ahead informed by where U S education has been what changes have been made in recent years and what's still required for the comprehensive overhaul that this vital enterprise so urgently needs Looking backward is infinitely easier than predicting the future but planning for the future is necessary if anything is to change and by analyzing the recent past and present condition of American primary and secondary school education across a host of key topics task force members in this volume chart a bold course for the years ahead Optimistic about the opportunities at hand they identify essential and feasible reforms as well as the barriers that must be overcome if those changes are to occur They offer high quality scholarship and thoughtful prescriptions for productive policy alternatives

2012 GCSE English results Great Britain: Parliament: House of Commons: Education Committee, 2013-06-11 The 2012 GCSE English results prompted significant controversy which ultimately resulted in an application for judicial review This report sets out the background to these events and identifies lessons to be learned The problems with GCSE English can be traced back to the 2007 09 development phase of the qualification in particular the turbulence which resulted from the shift away from a mostly linear to a modular system combined with a high proportion of controlled assessment and generous marking tolerances Exam board experts

raised concerns at the time but these were not acted upon by the regulator the then interim Ofqual Further difficulties arose because of pressures from the school accountability system The problems experienced with GCSE English in 2012 highlighted serious weaknesses in the moderation of speaking and listening with consequences for grade awarding The current status of Ofqual as an independent regulator accountable to Parliament is the right one However the Coalition Government is bringing in wholesale changes to GCSEs and A levels to a tight timetable and at the same time Ofqual must have systems in place The Committee is also concerned that there is a rush towards separate exam systems for England Wales and Northern Ireland without careful reflection on what might be lost or consensus that this is the right thing to do

The Math Teacher's Toolbox Bobson Wong, Larisa Bukalov, 2020-04-09 Math teachers will find the classroom tested lessons and strategies in this book to be accessible and easily implemented in the classroom The Teacher's Toolbox series is an innovative research based resource providing teachers with instructional strategies for students of all levels and abilities Each book in the collection focuses on a specific content area Clear concise guidance enables teachers to quickly integrate low prep high value lessons and strategies in their middle school and high school classrooms Every strategy follows a practical how to format established by the series editors The Math Teacher's Toolbox contains hundreds of student friendly classroom lessons and teaching strategies Clear and concise chapters fully aligned to Common Core math standards cover the underlying research required technology practical classroom use and modification of each high value lesson and strategy This book employs a hands on approach to help educators quickly learn and apply proven methods and techniques in their mathematics courses Topics range from the planning of units lessons tests and homework to conducting formative assessments differentiating instruction motivating students dealing with math anxiety and culturally responsive teaching Easy to read content shows how and why math should be taught as a language and how to make connections across mathematical units Designed to reduce instructor preparation time and increase student engagement and comprehension this book Explains the usefulness application and potential drawbacks of each instructional strategy Provides fresh activities for all classrooms Helps math teachers work with ELLs advanced students and students with learning differences Offers real world guidance for working with parents guardians and co teachers The Math Teacher's Toolbox Hundreds of Practical ideas to Support Your Students is an invaluable source of real world lessons strategies and techniques for general education teachers and math specialists as well as resource specialists special education teachers elementary and secondary educators and teacher educators

UGC-NET/SET: Education (Paper II & III) JRF and Assistant Professor Exam Guide High Definition Books, *Meeting the Challenges to Measurement in an Era of Accountability* Henry Braun, 2016-01-29 Under pressure and support from the federal government states have increasingly turned to indicators based on student test scores to evaluate teachers and schools as well as students themselves The focus thus far has been on test scores in those subject areas where there is a sequence of consecutive tests such as in mathematics or English language arts with a focus on grades

48 Teachers in these subject areas however constitute less than thirty percent of the teacher workforce in a district. Comparatively little has been written about the measurement of achievement in the other grades and subjects. This volume seeks to remedy this imbalance by focusing on the assessment of student achievement in a broad range of grade levels and subject areas with particular attention to their use in the evaluation of teachers and schools in all. It addresses traditional end-of-course tests as well as alternative measures such as portfolios, exhibitions, and student learning objectives. In each case, issues related to design and development, psychometric considerations, and validity challenges are covered from both a generic and a content-specific perspective. The NCME Applications of Educational Measurement and Assessment series includes edited volumes designed to inform research-based applications of educational measurement and assessment. Edited by leading experts, these books are comprehensive and practical resources on the latest developments in the field. The Open Access version of this book is available at <http://www.taylorfrancis.com> and has been made available under a Creative Commons Attribution Non-Commercial No Derivatives 4.0 license.

Teaching Mathematics Using Popular Culture Elana Reiser, 2015-11-09 Mathematics teachers often struggle to motivate their students. One way to cultivate and maintain student interest is for teachers to incorporate popular media into their methodology. Organized on the subject strands of the Common Core, this book explores math concepts featured in contemporary films and television shows and offers numerous examples high school math teachers can use to design lessons using pop culture references. Outlines for lessons are provided along with background stories and historical references.

Directions For Mathematics Research Experience For Undergraduates Yanir A. Rubinstein, Mark A. Peterson, 2015-09-29 The collection transcends the traditional institutional division lines: private/public, large/small, research/undergraduate, etc. and has something to offer for readers in every realm of academia. The collection challenges the reader to think about how to implement and improve undergraduate research experiences: what such experiences mean to students and faculty and how such experiences can take a permanent place in the modern preparation of undergraduate mathematics and STEM majors. The book is an open invitation to learn about what has worked and what hasn't in the inspiration and has the potential to ignite initiatives with long-lasting benefits to students and faculty nationwide. See Full Review.

Notices of the AMS: The US National Science Foundation NSF Research Experiences for Undergraduates (REU) program in mathematics is now 25 years old and it is a good time to think about what it has achieved, how it has changed, and where this idea will go next. This was the premise of the conference held at Mt. Holyoke College during 21-22 June 2013 and this circle of ideas is brought forward in this volume. The conference brought together diverse points of view from NSF administrators, leaders of university-wide honors programs, to faculty who had led REUs, recent PhDs who are expected to lead them soon, and students currently in an REU themselves. The conversation was so varied that it justifies a book-length attempt to capture all that was suggested, reported, and said. Among the contributors are Ravi Vakil (Stanford), Haynes Miller (MIT), and Carlos Castillo-Chavez (Arizona). President's Obama Committee on the National Medal of

Science 2010 2012 This book should serve not only as a collection of speakers notes but also as a source book for anyone interested in teaching mathematics and in the possibility of incorporating research like experiences in mathematics classes at any level as well as designing research experiences for undergraduates outside of the classroom **The SAGE Guide to Educational Leadership and Management** Fenwick W. English, 2015-01-29 The SAGE Guide to Educational Leadership and Management allows readers to gain knowledge of educational management in practice while providing insights into challenges facing educational leaders and the strategies skills and techniques needed to enhance administrative performance This guide emphasizes the important skills that effective leaders must develop and refine including communication developing teams coaching and motivating and managing time and priorities While being brief simply written and a highly practical overview for individuals who are new to this field this reference guide will combine practice and research indicate current issues and directions and choices that need to be made Features Benefits 30 brief signed chapters are organized in 10 thematic parts in one volume available in a choice of electronic or print formats designed to enable quick access to basic information Selective boxes enrich and support the narrative chapters with case examples of effective leadership in action Chapters conclude with bibliographic endnotes and references to further readings to guide students to more in depth presentations in other published sources Back matter includes an annotated listing of organizations associations and journals focused on educational leadership and administration and a detailed index This reference guide will serve as a vital source of knowledge to any students pursuing an education degree as well as for individuals interested in the subject matter that do not have a strong foundation of the topic **Teaching Math, Science, and Technology in Schools Today** Dennis Adams, Mary Hamm, 2014-02-19 Teaching Math Science and Technology in Schools Today Guidelines for Engaging Both Eager and Reluctant Learners offers unique engaging and thought provoking ideas The activities open imaginative doors to learning and provide opportunities for all learners It surveys today s most important trends and dilemmas while explaining how collaboration and critical thinking can be translated into fresh classroom practices Questions engagement and curiosity are viewed as natural partners for mathematical problem solving scientific inquiry and learning about technology Like the Common Core State Standards the book builds on the social nature of learning to provide suggestions for both eager and reluctant learners The overall goal of the book is to deepen the collective conversation challenge thinking and provide some up to date tools for teachers so they can help reverse the steady erosion of math science and technology understanding in the general population *Imagine Math 6* Michele Emmer, Marco Abate, 2018-11-06 Imagine mathematics imagine with the help of mathematics imagine new worlds new geometries new forms Imagine building mathematical models that make it possible to manage our world better imagine combining music art poetry literature architecture and cinema with mathematics Imagine the unpredictable and sometimes counterintuitive applications of mathematics in all areas of human endeavour Imagination and mathematics imagination and culture culture and mathematics This sixth volume in the series begins with a

homage to the architect Zaha Hadid who died on March 31st 2016 a few weeks before the opening of a large exhibition of her works in Palazzo Franchetti in Venice where all the Mathematics and Culture conferences have taken place in the last years A large section of the book is dedicated to literature narrative and mathematics including a contribution from Simon Singh It discusses the role of media in mathematics including museums of science journals and movies Mathematics and applications including blood circulation and preventing crimes using earthquakes is also addressed while a section on mathematics and art examines the role of math in design A large selection presents photos of mathematicians and mathematical objects by Vincent Moncorge Discussing all topics in a way that is rigorous but captivating detailed but full of evocations it offers an all embracing look at the world of mathematics and culture **Math Know-How** Thomasenia Lott Adams, Joanne LaFramenta, 2013-12-10 From two math coaches who really know how Have you ever wished there were a single resource to help you tackle your most persistent teaching issues once and for all To engage students in more meaningful ways To provide the tools you need to increase students understanding of key mathematical concepts All at the same time Math coaches Thomasenia Lott Adams and Joanne LaFramenta have just written it Written especially for grade 3 5 teachers Math Know How is organized around real questions Adams and LaFramenta have fielded from real teachers questions that have remained remarkably consistent across the hundreds of educators they have advised Now these two coaches share their hard won wisdom with you including how to Employ strategies to connect instruction to the CCSS especially the Mathematical Practices Negotiate the wide range of lesson planning and instructional choices Catch up when you fall behind your pacing guide Explore the myriad possibilities for exploiting technology in the classroom Engage students with diverse learning needs Read this book cover to cover and start asking and answering questions of your own about your teaching practice As we shift from individual standards to the Common Core State Standards for Mathematics this book will be a valuable resource in establishing strategies and instructional techniques to better equip teachers for the overwhelming transition Nena Mathews Math Science Teacher Florence SC **Mathematical Mindsets** Jo Boaler, 2022-02-23 Reverse mathematics trauma and find a universal blueprint for math success In Mathematical Mindsets Unleashing Students Potential through Creative Math Inspiring Messages and Innovative Teaching mathematics education expert and best selling author Jo Boaler delivers a blueprint to banishing math anxiety and laying a foundation for mathematics success that anyone can build on Perfect for students who have been convinced they are naturally bad at math the author offers a demonstration of how to turn self doubt into self confidence by relying on the mindset framework Mathematical Mindsets is based on thousands of hours of in depth study and research into the most effective and ineffective ways to teach math to young people This new edition also includes Brand new research from the last five years that sheds brighter light on how to turn a fear of math into an enthusiastic desire to learn Developed ideas about ways to bring about equitable grouping in classrooms New initiatives to bring 21st century mathematics to K 12 classrooms Mathematical Mindsets is ideal for K 12 math educators It

also belongs on the bookshelves of the parents interested in helping their K 12 children with their math education as well as school administrators and educators in training *Changing the Course of Failure* Sandra Stotsky, 2018-05-18 The basic purpose of this book is to help policy makers at all levels of government understand that 1 widespread adolescent underachievement is not susceptible to solution by educational interventions no matter how much money is allocated to public education and 2 there are unidentified educational and civic costs to focusing on low achievement and to expecting public institutions of education for K 12 and college to solve a growing social problem Many policy makers seem to think that teachers schools are the primary cause of low achievement Educational institutions still cannot solve a non education caused problem and haven t done so for over fifty years despite all the public and private money that has been allocated The book concludes with suggested policies for addressing the damage to public education from gap closing standards and with suggested areas for policy making in order to change the current course of failure for many low achieving students

Mathematical Intelligence Mubeen Junaid, 2022-11-01 A fresh exploration into the human nature versus technology argument revealing an unexpected advantage that humans have over our future robot masters we re actually good at mathematics There s so much discussion about the threat posed by intelligent machines that it sometimes seems as though we should simply surrender to our robot overlords now But Junaid Mubeen isn t ready to throw in the towel just yet As far as he is concerned we have the creative edge over computers because of a remarkable system of thought that humans have developed over the millennia It s familiar to us all but often badly taught in schools and misrepresented in popular discourse math Computers are of course brilliant at totting up sums pattern seeking and performing mindless tasks of well computation For all things calculation machines reign supreme But Junaid identifies seven areas of intelligence where humans can retain a crucial edge And in exploring these areas he opens up a fascinating world where we can develop our uniquely human mathematical talents Just a few of the fascinating subjects covered in MATHEMATICAL INTELLIGENCE include Humans are endowed with a natural sense of numbers that is based on approximation rather than precise calculation Our in built estimation skills complement the precision of computers Interpreting the real world depends on both What sets humans apart from other animals is language and abstraction We have an extraordinary ability to create powerful representations of knowledge more diverse than the binary language of computers Mathematics confers the most robust logical framework for establishing permanent truths Reasoning shields us from the dubious claims of pure pattern recognition systems All mathematical truths are derived from a starting set of assumptions or axioms Unlike computers humans have the freedom to break free of convention and examine the logical consequences of our choices Mathematics rewards our imagination with fascinating and on occasion applicable concepts that originate from breaking the rules Computers can be tasked to solve a range of problems but which problems are worth the effort Questioning is as vital to our repertoire of thinking skills as problem solving itself **Connecting Science and Engineering Education Practices in Meaningful Ways** Leonard A.

Annetta,James Minogue,2016-03-02 The need for a scientifically literate citizenry one that is able to think critically and engage productively in the engineering design process has never been greater By raising engineering design to the same level as scientific inquiry the Next Generation Science Standards NGSS have signaled their commitment to the integration of engineering design into the fabric of science education This call has raised many critical questions How well do these new standards represent what actually engineers do Where do the deep connections among science and engineering practices lie To what extent can or even should science and engineering practices co exist in formal and informal educational spaces Which of the core science concepts are best to leverage in the pursuit of coherent and compelling integration of engineering practices What science important content may be pushed aside This book tackles many of these tough questions head on All of the contributing authors consider the same core question Given the rapidly changing landscape of science education including the elevated status of engineering design what are the best approaches to the effective integration of the science and engineering practices They answered with rich descriptions of pioneering approaches critical insights and useful practical examples of how embodying a culture of interdisciplinarity and innovation can fuel the development of a scientifically literate citizenry This collection of work builds traversable bridges across diverse research communities and begins to break down long standing disciplinary silos that have historically often hamstrung well meaning efforts to bring research and practice from science and engineering together in meaningful and lasting ways

International Journal of Mathematical Combinatorics, Volume 1, 2013 Linfan Mao, The International J Mathematical Combinatorics is a fully refereed international journal sponsored by the MADIS of Chinese Academy of Sciences and published in USA quarterly which publishes original research papers and survey articles in all aspects of mathematical combinatorics Smarandache multi spaces Smarandache geometries non Euclidean geometry topology and their applications to other sciences

Mathematics Paper June 2013 Common Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Mathematics Paper June 2013 Common**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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