

Question Paper Code : 70141

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2022.

Third Semester

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MA 3354 – DISCRETE MATHEMATICS(Common to Computer and Communication Engineering/Artificial Intelligence and
Data Science/Computer Science and Business Systems/Information Technology)

(Regulations 2021)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

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1. Prove that $(p \rightarrow (p \vee q))$ is a tautology.
2. Symbolize the statement "All men are mortal".
3. Among 200 people, how many of them were born on the same month?
4. Find the first four terms of the sequence defined by the recurrence relations and initial condition $a_n = a_{n-1}^2$, $a_1 = 2$.
5. Define the pseudograph with an example.
6. Draw the graph of the adjacency matrix
$$\begin{bmatrix} 0 & 1 & 1 & 1 \\ 1 & 0 & 1 & 0 \\ 1 & 1 & 0 & 1 \\ 1 & 0 & 1 & 0 \end{bmatrix}$$
.
7. Define monoid.
8. Define the homomorphism of groups.
9. Draw Hasse diagram for $\leq$ relation on $\{0, 2, 5, 10, 11, 15\}$.
10. Define lattice.

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RC Schank



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Private Secondary Schools 2014-2015 Peterson's, 2014-01-09 Peterson's Private Secondary Schools 2014-15 is a valuable resource to help parents and students evaluate and choose from more than 1 100 schools in the United States Canada and throughout the world Featured institutions include independent day schools special needs schools and boarding schools including junior boarding schools for middle school students Profiles offer detailed information on areas of specialization location setting affiliation accreditation tuition and aid availability student body faculty academic programs athletics computers and campus technology and admission information Dozens of in depth descriptions and displays offer photos of students and school campuses as well as essential information to help parents find the right private secondary school for their child Extra Summer Programs section offers additional details on fascinating summer opportunities at private secondary schools "Code of Massachusetts regulations, 2014" ,2014 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 **Education Systems Around the World** Gilson Porto, 2020-04-08 This book Education Systems Around the World is a collection of reviewed and relevant research chapters that offer a comprehensive overview of recent developments in the field of social sciences and humanities The book comprises single chapters authored by various researchers and edited by an expert active in the field of social studies and humanities All chapters are unique but are united under a common research study topic This publication aims to provide a thorough overview of the latest research efforts by international authors on social studies and humanities and open new possible research paths for further novel developments *Register of the Commissioned and Warrant Officers of the United States Navy and Marine Corps and Reserve Officers on Active Duty* ,1932 Colorado Student Assessment Program ,1999 *Register of the Commissioned and Warrant Officers of the United States Navy and Marine Corps* United States. Bureau of Naval Personnel, 1925 Resources in Education ,1998 Research in Education ,1974 Annual Report Mpumalanga (South Africa). Department of Education, 2017 **Learning to teach in post-apartheid South Africa** Yusuf Sayed, 2018-11-30 Teacher education programmes seek to provide student teachers with the knowledge and expertise to provide quality teaching and learning in a diverse and challenging school context Learning to Teach in post apartheid South Africa Student Teachers Encounters with Initial Teacher Education addresses the complexities of teacher education programmes in preparing students to teach It adds to the knowledge about teacher education contributing critical understanding of education and the schooling system The book provides important insights to deepen researchers academics teacher education providers policy makers and students understanding of the importance to address equity redress and quality in South African education in a post apartheid era This book further helps to build student teachers capacities to work creatively and to become active and critical agents of transformation It ultimately outlines the challenges face in designing and delivering successful Initial Teacher Education programmes and the impact this has on delivering equitable and quality

education **Research for Educational Change** Jill Adler, Anna Sfard, 2016-06-17 Research for Educational Change presents ways in which educational research can fulfil its commitments to educational practice Focussing its discussion within the context of mathematics education it argues that while research generated insights can have beneficial effects on learning and teaching the question of how these effects are to be generated and sustained is far from evident The question of how to turn research into educational improvement is discussed here in the context of learning and teaching hindered by poverty and social injustice In the first part of the book four teams of researchers use different methodologies while analysing the same corpus of data collected in a South African mathematics classroom In the second part each of these teams makes a specific proposal about what can be done and how so that its research generated insights have a tangible beneficial impact on what is happening in mathematical classrooms Combining two discourses that of researchers speaking to one another and that of researchers communicating their insights to those responsible for educational practice the book deals with the perennial question of communication between those who study educational processes and those who are directly responsible for teacher education educational research and classroom practices This book will be key reading for postgraduates researchers and academics in education and particularly in the areas of mathematics education education research teacher education and classroom practice It will also appeal to teacher educators practitioners and undergraduate students interested in educational research *Mathematics Education in Africa* Brantina Chirinda, Kakoma Luneta, Alphonse Uworwabayeho, 2022-11-28 This book is about mathematics teaching and learning in Africa during the Fourth Industrial Revolution The Fourth Industrial Revolution 4IR has evolved to utilize new technologies in the teaching and learning of Mathematics It is characterized by the fusion of the biological physical and digital worlds and embodies a new era of innovation in mathematics education leading to the rapid emergence of new technologies for mathematics teaching and learning Because 4IR in mathematics education is happening differently in various parts of Africa the authors of the various chapters in this volume have positioned their work in their respective local contexts The chapters address a wide variety of interests concerns and implications regarding 4IR and Mathematics Education in Africa Additionally a number of chapters address teaching mathematics in the context of the COVID 19 pandemic that has gripped the world Other chapters discuss the implications of inequalities in Africa that effect mathematics education during 4IR Chapters also incorporate arguments observations and suggestions to improve and transform the teaching and learning of mathematics in Africa during the 4IR This book highlights a new era of innovation in mathematics education in the context of the Fourth Industrial Revolution leading to the rapid emergence of new technologies in mathematics teaching and learning It is a valuable resource for graduate students people with research interests in the fourth industrial revolution and mathematics educators at any level including all mathematics teachers mathematics education curriculum designers and policymakers **Register of the Commissioned and Warrant Officers of the Navy of the United States and of the Marine Corps** United States.

Bureau of Naval Personnel,1928 **Rebuilding the Natural Environment, Grade 10** Carla C. Johnson,Janet B. Walton,Erin E. Peters-Burton,2022-05-23 What if you could challenge your tenth graders to think about how innovation can make the world a better place for humans while finding ways to sustain progress and conserve resources With this volume in the STEM Road Map Curriculum Series you can Rebuilding the Natural Environment outlines a journey that will steer your students toward authentic problem solving while grounding them in integrated STEM disciplines Like the other volumes in the series this book is designed to meet the growing need to infuse real world learning into K 12 classrooms This interdisciplinary four lesson module uses project and problem based learning to help students connect their existing knowledge about energy production and its effects on the natural environment to create innovations in renewable sources of energy based on research evidence Working in teams students will design an innovative way to meet society s energy needs and develop a pitch to market their innovation focusing on how the innovation will optimize human experiences while being mindful of the natural environment To support this goal students will do the following Understand several forms of renewable sustainable energy sources Apply their understanding of how alternators are used to generate electricity in lab experiments as well as explain how tools such as windmills and dams are used to operate them Describe how electricity is generated in photovoltaic cells Calculate the amount of electricity consumed by several household items and consider this consumption when determining the average monthly energy consumption of households around the world in comparison to U S households Understand how fossil fuels have been used in the production of electricity and the impact they have had on the world s economy humans quality of life and the earth Identify several hindrances to the creation of new energy sources as well as ideas to counter them List several factors that can be used to motivate people from all walks of life to use renewable and sustainable energies Create a fictional company that uses renewable energies The STEM Road Map Curriculum Series is anchored in the Next Generation Science Standards the Common Core State Standards and the Framework for 21st Century Learning In depth and flexible Rebuilding the Natural Environment can be used as a whole unit or in part to meet the needs of districts schools and teachers who are charting a course toward an integrated STEM approach [Annual Report for the Year Ending ...](#) Namibia. Ministry of Education and Culture,1994 **Adaptive and Adaptable Learning** Katrien Verbert,Mike Sharples,Tomaž Klobučar,2016-09-06 This book constitutes the proceedings of the 11th European Conference on Technology Enhanced Learning EC TEL 2016 held in Lyon France in September 2016 The 26 full papers 23 short papers 8 demo papers and 33 poster papers presented in this volume were carefully reviewed and selected from 148 submissions

Preparing Students for College and Careers Katie Larsen McClarty,Krista D. Mattern,Matthew N. Gaertner,2017-08-22 Preparing Students for College and Careers addresses measurement and research issues related to college and career readiness Educational reform efforts across the United States have increasingly taken aim at measuring and improving postsecondary readiness These initiatives include developing new content standards redesigning assessments

and performance levels legislating new developmental education policy for colleges and universities and highlighting gaps between graduates skills and employers needs In this comprehensive book scholarship from leading experts on each of these topics is collected for assessment professionals and for education researchers interested in this new area of focus Cross disciplinary chapters cover the current state of research best practices leading interventions and a variety of measurement concepts including construct definitions assessments performance levels score interpretations and test uses The Open Access version of this book available at <http://www.taylorfrancis.com> has been made available under a Creative Commons Attribution Non Commercial No Derivatives 4.0 license *Subject Offerings and Enrollments* United States. Education Office,1965

Maths Handbook & Study Guide Grade 10 Kevin Smith,2017-11-01 The Maths Handbook Study Guide is a comprehensive reference book and set of notes that covers everything in one book The book is written in a clear simple visual and logical manner The colour coding facilitates explanations definitions formulas recaps of previous work hints and ideas It is easy to read easy to understand and it is easy to apply what has been learnt It works in conjunction with all other Maths books It is a welcome addition to the Handbook and Study Guide series The Maths Handbook and Study Guide demystifies Maths and helps students to reach their potential in this challenging subject The sub title of the book is Maths Made Easy and this is what it aims to do Kevin ensures that his work is up to date at all times and that it is suitable for IEB and National Curriculum students There are exercises in the front of the book and solutions to problems at the back *International Journal of Science, Technology, Engineering and Mathematics* Patricia Nicole F. Benedicto & Rose R. Andrade,Winmark Bombio & Anna Liza P. Del Rosario,2022-06-30 International Journal of Science Technology Engineering and Mathematics IJSTEM is an open access refereed journal focused recent developments relative to biomedical science software applications development modelling and systems design and mathematics education research It is a selective multi track journal covering all aspects of biomedical engineering nanotechnology solving and expressing mathematical problems with digital tools mathematical modelling networking and information security as well as their involvement in the telecom market contemporary computer technologies and applications computer vision advanced computer research and topics in mechatronics

Nov Dec Mathematics Grd10 2014: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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