

ANNUAL NATIONAL ASSESSMENT 2013 GRADE 5 MATHEMATICS MEMORANDUM

MARKS: 60

This memorandum consists of 3 pages.

Important information:

- 1. Give full marks for answers only, unless otherwise stated.
- 2. Accept any alternative correct solution that is not included in the memorandum.
- 3. CA refers to consistent accuracy. See clarification in question 8.1

Que	stion	Expected Answer	Clarification	Mark allocation	Total
31.00	1.1	8 -		1	
	1.2	D ✓	8	1	1
	1.3	C ✓		1	
	1.4	8 -		1	1
	1.5	C		1	
	1.6	8 -		1	1
	1.7	AY		1	1 10000
	1.8	8 -		1	8
2.	2.1	33 755 -		1	
	2.2	100 000 ✓		1	2
3.		200 000 or 2 Hundred Thousand or 2HTh <		1	
4.		< 2		1	1 1
5.		9 ✓		1	1
6.		19 -	(Rule 3 = 2 × 1 + 1 5 = 2 × 2 + 1, 7 = 2 × 3 + 1) 19 = 2 × 9 + 1 25 = (51-1) + 2	1	2
7.	7.1	True V	20 - 101-11	1	
	7.2	False -		1 1	1
	7.3	True -/		1	3
8.	8.1	11 523 21 275 + 7 356 40 154 or 11 523 = 10 000 + 1 000 + 500 + 20 + 3 21 275 = 20 000 + 1 000 + 200 + 70 + 5 + 7 356 Sum = 40 000 + 1000 + 50 + 6 = 40 154 or 10 000 + 1 000 + 500 + 20 + 3 + 20 000 + 1 000 + 200 + 70 + 5 + 7 000 + 300 + 50 + 6 = 10 000 + 20 000 + 1 000 + 1 000 + 7 000 + 500 + 200 + 300 + 20 + 70 + 50 + 3 + 5 + 6 = 40 000 + 100 + 50 + 4 = 40 154	Arrangement of values: 1 mark Correct answer: 1 mark 11 523 21 275 X +7 358 106 358 < 1 mark for CA	2	
	8.2	69 157 -17 239 -51 918 ~	Arrangement of values: 1 mark Correct answer; 1 mark	2	

Mathematics June 2013 Memorandum

Muhammad Khalifa, Noelle Witherspoon Arnold, Azadeh F. Osanloo, Cosette M. Grant

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Caught in the Act Cyril Julie, Lorna Holtman, Charles R. Smith, 2019-12-11 The research reported in Caught in the Act draws together the insights gained from a continuous professional development initiative for high school mathematics teachers teaching in low socio economic status and socially challenged environments in South Africa The chapters show the possibilities for enhancing achievement in school mathematics if a strength based approach is adopted to develop teaching with teachers and when their concerns are taken seriously. The book demonstrates that the ecological relevance fitness for the context in which teachers are teaching of the goods developed and distributed by initiatives should be a major consideration to offer hope for sustainable implementation to improve school mathematics education The book is of interest to mathematics teachers school leaders mathematics curriculum advisors policy makers and researchers University, Volume 3: 1957-1987 James G. Greenlee, 2015-05-01 In 1957 McMaster was a small Baptist enclave of traditional higher learning on the western outskirts of Hamilton Thirty years later it was home to the only nuclear reactor on a Commonwealth campus and had cultivated a thriving engineering program and a world class medical school In the third volume of the university's history James Greenlee illuminates the core ideas driving ambitions and occasionally sharp conflicts that marked this startling transition Greenlee offers a tightly focused study of the planning people and events that gave McMaster its distinctive and bold personality At the heart of these developments stood President Harry Thode whose master plan forged a research intensive institution of medium size but one capable of surpassing the largest institutions in carefully selected fields Despite dramatic ups and downs the remarkable persistence of this model is the key to understanding modern McMaster For readers interested in the problems of mass education in a democratic age the origins of revolutionary approaches to medical training or the tangled relations among a university its community and the province this volume like the McMaster leaders it follows has a story to tell Global Flood Hazard Guy J-P. Schumann, Paul D. Bates, Heiko Apel, Giuseppe T. Aronica, 2018-06-05 Global Flood Hazard Subject Category Winner PROSE Awards 2019 Earth Science Selected from more than 500 entries demonstrating exceptional scholarship and making a significant contribution to the field of study Flooding is a costly natural disaster in terms of damage to land property and infrastructure This volume describes the latest tools and technologies for modeling mapping and predicting large scale flood risk It also presents readers with a range of remote sensing data sets successfully used for predicting and mapping floods at different scales These resources can enable policymakers public planners and developers to plan for and respond to flooding with greater accuracy and effectiveness Describes the latest large scale modeling approaches including hydrological models 2 D flood inundation models and global flood forecasting models Showcases new tools and technologies such as Aqueduct a new web based tool used for global assessment and projection of future flood risk under climate change scenarios Features case studies describing best practice uses of modeling techniques tools and technologies Global Flood Hazard is an indispensable

resource for researchers consultants practitioners and policy makers dealing with flood risk flood disaster response flood management and flood mitigation An Excursion Through Discrete Differential Geometry American Mathematical Society. Short Course, Discrete Differential Geometry, 2020-09-02 Discrete Differential Geometry DDG is an emerging discipline at the boundary between mathematics and computer science It aims to translate concepts from classical differential geometry into a language that is purely finite and discrete and can hence be used by algorithms to reason about geometric data In contrast to standard numerical approximation the central philosophy of DDG is to faithfully and exactly preserve key invariants of geometric objects at the discrete level This process of translation from smooth to discrete helps to both illuminate the fundamental meaning behind geometric ideas and provide useful algorithmic guarantees. This volume is based on lectures delivered at the 2018 AMS Short Course Discrete Differential Geometry held January 8 9 2018 in San Diego California The papers in this volume illustrate the principles of DDG via several recent topics discrete nets discrete differential operators discrete mappings discrete conformal geometry and discrete optimal transport **Cognitive Communication and** Cooperative HetNet Coexistence Maria-Gabriella Di Benedetto, Faouzi Bader, 2014-01-16 This book written by experts from universities and major industrial research laboratories is devoted to the very hot topic of cognitive radio and networking for cooperative coexistence of heterogeneous wireless networks Selected highly relevant advanced research is presented on spectrum sensing and progress toward the realization of accurate radio environment mapping biomimetic learning for self organizing networks security threats with a special focus on primary user emulation attack and cognition as a tool for green next generation networks The research activities covered include work undertaken within the framework of the European COST Action IC0902 which is geared towards the definition of a European platform for cognitive radio and networks Communications engineers R D engineers researchers and students will all benefit from this complete reference on recent advances in wireless communications and the design and implementation of cognitive radio systems and networks

Singularity Theory for Non-Twist KAM Tori A. González-Enríquez, A. Haro, R. de la Llave, 2014-01-08 In this monograph the authors introduce a new method to study bifurcations of KAM tori with fixed Diophantine frequency in parameter dependent Hamiltonian systems It is based on Singularity Theory of critical points of a real valued function which the authors call the potential The potential is constructed in such a way that nondegenerate critical points of the potential correspond to twist invariant tori i e with nondegenerate torsion and degenerate critical points of the potential correspond to non twist invariant tori Hence bifurcating points correspond to non twist tori Access to Scientific Research David J. Brown, 2015-11-13 The debate about access to scientific research raises questions about the current effectiveness of scholarly communication processes This book explores from an independent point of view the current state of the STM publishing market new publishing technologies and business models as well as the information habit of researchers the politics of research funders and the demand for scientific research as a public good The book also investigates the

democratisation of science including how the information needs of knowledge workers outside academia can be embraced in Lie Algebras, Lie Superalgebras, Vertex Algebras and Related Topics Kailash C. Misra, Daniel K. future Nakano, Brian J. Parshall, 2016-06-28 This book contains the proceedings of the 2012 2014 Southeastern Lie Theory Workshop Series held at North Carolina State University in April 2012 at College of Charleston in December 2012 at Louisiana State University in May 2013 and at University of Georgia in May 2014 Some of the articles by experts in the field survey recent developments while others include new results in representations of Lie algebras and quantum groups vertex operator algebras and Lie superalgebras Research Memorandum ,1947 **Memristors** Alex James, 2020-05-27 This Edited Volume Memristors Circuits and Applications of Memristor Devices is a collection of reviewed and relevant research chapters offering a comprehensive overview of recent developments in the field of Engineering The book comprises single chapters authored by various researchers and edited by an expert active in the physical sciences engineering and technology research areas All chapters are complete in itself but united under a common research study topic This publication aims at providing a thorough overview of the latest research efforts by international authors on physical sciences engineering and technology and open new possible research paths for further novel developments Memorandum - .1963 Classical and Geometric Optimization Debasish Roy, G Visweswara Rao, 2024-01-25 This comprehensive textbook covers both classical and geometric aspects of optimization using methods deterministic and stochastic in a single volume and in a language accessible to non mathematicians It will help serve as an ideal study material for senior undergraduate and graduate students in the fields of civil mechanical aerospace electrical electronics and communication engineering The book includes Derivative based Methods of Optimization Direct Search Methods of Optimization Basics of Riemannian Differential Geometry Geometric Methods of Optimization using Riemannian Langevin Dynamics Stochastic Analysis on Manifolds and Geometric Optimization Methods This textbook comprehensively treats both classical and geometric optimization methods including deterministic and stochastic Monte Carlo schemes It offers an extensive coverage of important topics including derivative based methods penalty function methods method of gradient projection evolutionary methods geometric search using Riemannian Langevin dynamics and stochastic dynamics on manifolds The textbook is accompanied by online resources including MATLAB codes which are uploaded on our website The textbook is primarily written for senior undergraduate and graduate students in all applied science and engineering disciplines and can be used as a main or supplementary text for courses on classical and geometric optimization IGNOU BCA Communication Skills Previous Year Unsolved Papers MCS 015 Manish Soni, 2024-11-13 Communication skills are essential for success in both academic and professional settings They involve a range of competencies such as expressing ideas clearly active listening public speaking group discussions and the effective use of verbal and non verbal communication Understanding the significance of these skills in today s world the Indira Gandhi National Open University IGNOU has included Communication Skills as a crucial

part of the BCA curriculum helping students enhance their overall personality and professional readiness IGNOU BCA Communication Skills Previous Year Unsolved Papers MCS 015 is a thoughtfully curated collection of unsolved question papers from previous IGNOU examinations This book is designed to help students become familiar with exam patterns assess their preparation level and develop a deeper understanding of communication concepts Covering key areas like interpersonal communication conflict resolution and presentation skills the book encourages active learning and critical thinking We hope this compilation proves to be a valuable resource for exam preparation and a practical guide to mastering effective Disorder and the Disinformation Society Jonathan Paul Marshall, James Goodman, Didar Zowghi, Francesca da Rimini,2015-04-17 This book is the first general social analysis that seriously considers the daily experience of information disruption and software failure within contemporary Western society Through an investigation of informationalism defined as a contemporary form of capitalism it describes the social processes producing informational disorder While most social theory sees disorder as secondary pathological or uninteresting this book takes disordering processes as central to social life The book engages with theories of information society which privilege information order offering a strong counterpoint centred on disinformation Disorder and the Disinformation Society offers a practical agenda arguing that difficulties in producing software are both inherent to the process of developing software and in the social dynamics of informationalism It outlines the dynamics of software failure as they impinge on of information workers and on daily life explores why computerized finance has become inherently self disruptive asks how digital enclosure and intellectual property create conflicts over cultural creativity and disrupt informational accuracy and scholarship and reveals how social media can extend but also distort the development of social movements On the Theory of Weak Turbulence for the Nonlinear Schrodinger Equation M. Escobedo, J. J. L. Velázquez, 2015-10-27 The authors study the Cauchy problem for a kinetic equation arising in the weak turbulence theory for the cubic nonlinear Schr dinger equation They define suitable concepts of weak and mild solutions and prove local and global well posedness results Several qualitative properties of the solutions including long time asymptotics blow up results and condensation in finite time are obtained The authors also prove the existence of a family of Handbook of Urban Educational Leadership Muhammad Khalifa, Noelle solutions that exhibit pulsating behavior Witherspoon Arnold, Azadeh F. Osanloo, Cosette M. Grant, 2015-06-01 This authoritative handbook examines the community district and teacher leadership roles that affect urban schools It will serve as a foundation for pedagogical and educational leadership practices that foster social justice equity and advocacy for those who have been traditionally and historically underserved in education The handbook s ten sections cover topics as diverse as curriculum instruction and educational outcomes gender race and class higher education and leadership preparation and support Its twenty nine chapters offer both American and international perspectives Climate Shock Gernot Wagner, Martin L. Weitzman, 2016-04-19 How knowing the extreme risks of climate change can help us prepare for an uncertain future If you had a 10 percent chance of having a

fatal car accident you d take necessary precautions If your finances had a 10 percent chance of suffering a severe loss you d reevaluate your assets So if we know the world is warming and there s a 10 percent chance this might eventually lead to a catastrophe beyond anything we could imagine why aren t we doing more about climate change right now We insure our lives against an uncertain future why not our planet In Climate Shock Gernot Wagner and Martin Weitzman explore in lively clear terms the likely repercussions of a hotter planet drawing on and expanding from work previously unavailable to general audiences They show that the longer we wait to act the more likely an extreme event will happen A city might go underwater A roque nation might shoot particles into the Earth's atmosphere geoengineering cooler temperatures Zeroing in on the unknown extreme risks that may yet dwarf all else the authors look at how economic forces that make sensible climate policies difficult to enact make radical would be fixes like geoengineering all the more probable What we know about climate change is alarming enough What we don't know about the extreme risks could be far more dangerous Wagner and Weitzman help readers understand that we need to think about climate change in the same way that we think about insurance as a risk management problem only here on a global scale With a new preface addressing recent developments Wagner and Weitzman demonstrate that climate change can and should be dealt with and what could happen if we don't do so tackling the defining environmental and public policy issue of our time Social Robots in Education Georgios Lampropoulos, Stamatios Papadakis, 2025-05-03 This book focuses on recent advances in the field of social robots and their integration in education It elaborates on the progressive evolution of human robot interaction and educational robotics the emergence of digital pedagogy and the implementation of personalized learning methodologies The book also examines the use of artificial intelligence AI in education through the lenses of social robots Hence the book offers an overview of recent research into the adoption integration advancements and impact of social robots and AI in education and presents guidelines and suggestions on how to integrate them in classrooms Specifically the book Provides an in depth overview of social robots and their use in education Presents the advances of social robots and AI in education Showcases innovative solutions and outcomes of integrating social robots in classrooms Discusses the challenges benefits and future research directions of using social robots Adelic Divisors on Arithmetic Varieties Atsushi Moriwaki: 2016-06-21 In this article the author and AI in education generalizes several fundamental results for arithmetic divisors such as the continuity of the volume function the generalized Hodge index theorem Fujita's approximation theorem for arithmetic divisors Zariski decompositions for arithmetic divisors on arithmetic surfaces and a special case of Dirichlet's unit theorem on arithmetic varieties to the case of the adelic **Human Rights and America's War on Terror** Satvinder S. Juss, 2018-10-25 This volume examines arithmetic divisors the success of the 9 11 attacks in undermining the cherished principles of Western democracy free speech and tolerance which were central to US values It is argued that this has led to the USA fighting disastrous wars in Afghanistan and Iraq and to sanctioning the use of torture and imprisonment without trial in Guant namo Bay extraordinary rendition surveillance and

drone attacks At home it has resulted in restrictions of civil liberties and the growth of an ill affordable military and security apparatus In this collection the authors note the irony that the shocking destruction of the World Trade Center on 9 11 should become the justification for the relentless expansion of security agencies Yet this is a salutary illustration of how the security agencies in the USA have adopted faulty preconceptions which have become too embedded within the institution to be abandoned without loss of credibility and prestige The book presents a timely assessment of both the human rights costs of the war on terror and the methods used to wage and relentlessly continue that war It will be of interest to researchers academics practitioners and students in the fields of human rights law criminal justice criminology politics and international studies

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