Final

KWAZULU-NATAL PROVINCE

EDUCATION
REPUBLIC OF SOUTH AFRICA

NATIONAL
SENIOR CERTIFICATE

GRADE 12

MATHEMATICS P2

COMMON TEST

JUNE 2022

MARKING GUIDELINE

MARKS: 150

TIME: 3 hours

NOTE:

- If a candidate answered a QUESTION TWICE, mark only the FIRST attempt.
- If a candidate crossed out an answer and did not redo it, mark the crossed-out answer.
- Consistent accuracy applies to ALL aspects of the marking guidelines.
- Assuming values/answer to solve a problem is unacceptable.

This marking guideline consists of 12 pages.

Paper 1 Mathematics 2013

Disha Experts

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TARGET SNAP 2017 (Past Papers 2005 - 2016) + 5 Mock Tests - 9th Edition Disha Experts,2017-09-01 TARGET SNAP 2017 Past 2005 2016 5 Mock Tests contains the detailed solutions of SNAP Question Papers from 2005 to 2016 The book also contains 5 Mock tests designed exactly as per the latest pattern of SNAP As the pattern of SNAP is changing every year so different patterns have been incorporated in the Mock Tests *TARGET SNAP 2019 (Past Papers 2005 - 2018) + 5 Mock Tests 11th Edition* Disha Experts,2019-08-04 **Collected Papers. Volume XII** Florentin Smarandache,2022-08-01 This twelfth volume of Collected Papers includes 86 papers comprising 976 pages on Neutrosophics Theory and Applications published between 2013 2021 in the international journal and book series Neutrosophic Sets and Systems by the author alone or in collaboration with the following 112 co authors alphabetically ordered from 21 countries Abdel Nasser H Zaied Muhammad Akram Bobin Albert S A Alblowi S Anitha Guennoun Asmae Assia Bakali Ayman M Manie Abdul Sami Awan Azeddine Elhassouny Erick Gonz lez Caballero D Dafik Mithun Datta Arindam Dey Mamouni Dhar Christopher Dyer Nur Ain Ebas Mohamed Eisa Ahmed K Essa Faruk Karaaslan Jo o Alcione Sganderla Figueiredo Jorge Fernando Goyes Garc a N Ramila Gandhi Sudipta Gayen Gustavo Alvarez G mez Sharon Dinarza lvarez G mez Haitham A El Ghareeb Hamiden Abd El Wahed Khalifa Masooma Raza Hashmi Ibrahim M Hezam German Acurio Hidalgo Le Hoang Son R Jahir Hussain S Satham Hussain Ali Hussein Mahmood Al Obaidi Hays Hatem Imran Nabeela Ishfaq Saeid Jafari R Jansi V Jeyanthi M Jeyaraman Sripati Jha Jun Ye W B Vasantha Kandasamy Abdullah Karg n J Kavikumar Kawther Fawzi Hamza Alhasan Huda E Khalid Neha Andalleb Khalid Mohsin Khalid Madad Khan D Koley Valeri Kroumov Manoranjan Kumar Singh Pavan Kumar Prem Kumar Singh Ranjan Kumar Malayalan Lathamaheswari A N Mangayarkkarasi Carlos Rosero Mart nez Marvelio Alfaro Matos Mai Mohamed Nivetha Martin Mohamed Abdel Basset Mohamed Talea K Mohana Muhammad Irfan Ahamad Rana Muhammad Zulqarnain Muhammad Riaz Muhammad Saeed Muhammad Saqlain Muhammad Shabir Muhammad Zeeshan Anjan Mukherjee Mumtaz Ali Deivanayagampillai Nagarajan Iqra Nawaz Munazza Naz Roan Thi Ngan Necati Olgun Rodolfo Gonz lez Ortega P Pandiammal I Pradeepa R Princy Marcos David Oviedo Rodr guez Jes s Estupi n Ricardo A Rohini Sabu Sebastian Abhijit Saha Mehmet ahin Said Broumi Saima Anis A A Salama Ganeshsree Selvachandran Seyed Ahmad Edalatpanah Sajana Shaik Soufiane Idbrahim S Sowndrarajan Mohamed Talea Ruipu Tan Chalapathi Tekuri Sel uk Topal S P Tiwari Vakkas Ulu ay Maikel Leyva V zquez Chinnadurai Veerappan M Venkatachalam Luige Vl d reanu tefan Vl du escu Young Bae Jun Wadei F Al Omeri Xiao Long Xin **19 Year-wise SNAP Previous Year Solved Papers (2005 - 2023) with 5 Mock Tests 16th Edition | PYQs Question Bank | Quantitative Aptitude, Verbal Ability, Reading Comprehension & Reasoning** Disha Experts,2024-04-25 The updated 16th Edition of the book 19 Year wise SNAP Previous Year Solved Papers 2005 2023 with 5 Mock Tests includes The book provides 19 Year Wise Original papers with authentic solutions of SNAP from 2005 2023 The book also contains 5 Mock tests designed exactly as per the latest pattern of SNAP Each mock

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International Commission on Mathematical Instruction ICMI This book the Proceedings of ICME 14 presents the latest trends in mathematics education research and mathematics teaching practices at all levels Each chapter covers an extensive range of topics in mathematics education Volume I consists of 4 Plenary Lectures 3 Plenary Panels 5 Lectures of Awardees 4 Survey Teams 62 Topic Study Groups 13 Discussion Groups 20 Workshops a Thematic Afternoon and an Early Career Researcher Day Plenary Lectures recognize substantial and continuing contributions to the growth of the field of Mathematics Education Plenary Panels address three major challenges currently facing mathematics educators across the globe The Survey Teams have a particular emphasis on identifying and characterizing important new knowledge recent developments new perspectives and emergent issues The Topic Study Groups provides a coverage of important topics in mathematics education Volume II consists of 50 invited lectures which present the work and reflections of both established and emerging researchers from around the world These lectures cover a wide spectrum of topics themes and issues that reflect the latest challenges and development in the field of mathematics education **Application of Neutrosophic Soft Sets to K-Algebras** Muhammad Akram,Hina Gulzar,Florentin Smarandache,Said Broumi, Neutrosophic sets and soft sets are two different mathematical tools for representing vagueness and uncertainty We apply these models in combination to study vagueness and uncertainty in K algebras We introduce the notion of single valued neutrosophic soft SNS K algebras and investigate some of their properties We also illustrate the concepts with numerical examples *Structures of Domination in Graphs* Teresa W. Haynes,Stephen T. Hedetniemi,Michael A. Henning,2021-05-04 This volume comprises 17 contributions that present advanced topics in graph domination featuring open problems modern techniques and recent results The book is divided into 3 parts The first part focuses on several domination related concepts broadcast domination alliances domatic numbers dominator colorings irredundance in graphs private neighbor concepts game domination varieties of Roman domination and spectral graph theory The second part covers domination in hypergraphs chessboards and digraphs and tournaments The third part focuses on the development of algorithms and complexity of signed minus and majority domination power domination and alliances in graphs The third part also includes a chapter on self stabilizing algorithms Of extra benefit to the reader the first chapter includes a glossary of commonly used terms The book is intended to provide a reference for established researchers in the fields of domination and graph theory and graduate students who wish to gain knowledge of the topics covered as well as an overview of the major accomplishments and proof techniques used in the field **Effective Teaching Strategies for Dyscalculia and Learning Difficulties in Mathematics** Marie-Pascale Noël,Giannis Karagiannakis,2022-03-28 Effective Teaching Strategies for Dyscalculia and Learning Difficulties in Mathematics provides an essential bridge between scientific research and practical interventions with children It unpacks what we know about the possible cognitive causation of mathematical difficulties in order to improve teaching and therefore learning Each chapter considers a specific domain of children s numerical development counting and the understanding of

numbers understanding of the base 10 system arithmetic word problem solving and understanding rational numbers The accessible guidance includes a literature review on each topic surveying how each process develops in children the difficulties encountered at that level by some pupils and the intervention studies that have been published It guides the reader step by step through practical guidelines of how to assess these processes and how to build an intervention to help children master them Illustrated throughout with examples of materials used in the effective interventions described this essential guide offers deep understanding and effective strategies for developmental and educational psychologists special educational needs and or disabilities coordinators and teachers working with children experiencing mathematical difficulties

Handbook of International Research in Mathematics Education Lyn D. English,David Kirshner,2015-07-30 This third edition of the Handbook of International Research in Mathematics Education provides a comprehensive overview of the most recent theoretical and practical developments in the field of mathematics education Authored by an array of internationally recognized scholars and edited by Lyn English and David Kirshner this collection brings together overviews and advances in mathematics education research spanning established and emerging topics diverse workplace and school environments and globally representative research priorities New perspectives are presented on a range of critical topics including embodied learning the theory practice divide new developments in the early years educating future mathematics education professors problem solving in a 21st century curriculum culture and mathematics learning complex systems critical analysis of design based research multimodal technologies and e textbooks Comprised of 12 revised and 17 new chapters this edition extends the Handbook s original themes for international research in mathematics education and remains in the process a definitive resource for the field **Digital Games and Mathematics Learning** Tom Lowrie,Robyn Jorgensen (Zevenbergen),2015-10-05 Digital games offer enormous potential for learning and engagement in mathematics ideas and processes This volume offers multidisciplinary perspectives of educators cognitive scientists psychologists and sociologists on how digital games influence the social activities and mathematical ideas of learners gamers Contributing authors identify opportunities for broadening current understandings of how mathematical ideas are fostered and embedded within digital game environments In particular the volume advocates for new and different ways of thinking about mathematics in our digital age proposing that these mathematical ideas and numeracy practices are distinct from new literacies or multiliteracies The authors acknowledge that the promise of digital games has not always been realised fulfilled There is emerging and considerable evidence to suggest that traditional discipline boundaries restrict opportunities for mathematical learning Throughout the book what constitutes mathematics learnings and pedagogy is contested Multidisciplinary viewpoints are used to describe and understand the potential of digital games for learning mathematics and identify current tensions within the field Mathematics learning is defined as being about problem solving engagement in mathematical ideas and processes and social engagement The artefact which is the game shapes the ways in which the gamers engage with the

social activity of gaming In parallel the book as a te xtual artefact will be supported by Springer s online platform allowing for video and digital communication including links to relevant websites to be used as supplementary material and establish a dynamic communication space   Examcart NDA/NA Maths & GAT 36 Chapter-wise Solved Papers for 2024 Exam in English Examcart Experts,   *Irregularities in the Distribution of Prime Numbers* János Pintz,Michael Th. Rassias,2018-07-04 This volume presents research and expository papers highlighting the vibrant and fascinating study of irregularities in the distribution of primes Written by an international group of experts contributions present a self contained yet unified exploration of a rapidly progressing area Emphasis is given to the research inspired by Maier s matrix method which established a newfound understanding of the distribution of primes Additionally the book provides an historical overview of a large body of research in analytic number theory and approximation theory The papers published within are intended as reference tools for graduate students and researchers in mathematics   *Neutrosophic Theory and Its Applications, Vol. I* Florentin Smarandache,2014-12-01 This volume contains 45 papers written by the author alone or in collaboration with the following co authors Mumtaz Ali Said Broumi Sukanto Bhattacharya Mamoni Dhar Irfan Deli Mincong Deng Alexandru Gal Valeri Kroumov Pabitra Kumar Maji Maikel Leyva Vazquez Feng Liu Pinaki Majumdar Munazza Naz Karina Perez Teruel R dvan Sahin A A Salama Muhammad Shabir Rajshekhar Sunderraman Luige Vladareanu Magdalena Vladila Stefan Vladutescu Haibin Wang Hongnian Yu Yan Qing Zhang   **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   Discrete Quantum Walks on Graphs and Digraphs Chris Godsil,Hanmeng Zhan,2023-01-12 Explore the mathematics arising from discrete quantum walks in this introduction to a rapidly developing area   **Complex Analysis and Dynamical Systems VI** Matania Ben-Artzi, Greg Galloway,Lavi Karp,Dmitry Khavinson,Simeon Reich,Gilbert Weinstein,Lawrence Zalcman,2015-12-03 This volume contains the proceedings of the Sixth International Conference on Complex Analysis and Dynamical Systems held from May 19 24 2013 in Nahariya Israel in honor of David Shoikhet s sixtieth birthday The papers in this volume range over a wide variety of topics in Partial Differential Equations Differential Geometry and the Radon Transform Taken together the articles collected here provide the reader with a panorama of activity in partial differential equations and general relativity drawn by a number of leading figures in the field They testify to the continued vitality of the interplay between classical and modern analysis The companion volume Contemporary Mathematics Volume 667 is devoted to complex analysis quasiconformal mappings and complex dynamics This book is co published with Bar Ilan University Ramat Gan Israel

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