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NATIONAL SENIOR CERTIFICATE EXAMINATION
NOVEMBER 2021

MATHEMATICS: PAPER I

EXAMINATION NUMBER

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Time: 3 hours

150 marks

PLEASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. This question paper consists of 24 pages and an Information Sheet of 2 pages (i–ii). Please check that your question paper is complete.
2. Read the questions carefully.
3. Answer all the questions.
4. Write your answers in the spaces provided.
5. You may use an approved non-programmable and non-graphical calculator unless otherwise stated.
6. Clearly show **ALL** calculations, diagrams, graphs, etc. that you have used in determining your answers.

Answers only will NOT necessarily be awarded full marks.

7. Diagrams are not necessarily drawn to scale.
8. If necessary, round off answers to **ONE** decimal place, unless otherwise stated.
9. It is in your own interest to write legibly and to present your work neatly.
10. Three blank pages (pages 22 to 24) are included at the end of the paper. If you run out of space for a question, use these pages. Clearly indicate the question number of your answer should you use this extra space.

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Turbophysics Grade 12 , Afrikaans +: Chop-Chop Marieta Nel,2021-06-01 Afrikaans is n leerdergesentreerde studiegids vir leerders wat Afrikaans as addisionele taal neem propvol voorbeelde waarvan die verduidelikings in Engels is Riglyne vir staatskole en die IEB skole word verskaf en daar is gratis aanlyn hulp vir elke hoofstuk beskikbaar Die boek is deur n paneel kundiges geskryf wat die uitdagings van die addisioneletaal leerder verstaan Dit is geskryf volgens die nuutste AWS 2017 en is modul r sodat dit maklik opgedateer kan word Daar is ses afdelings begrip taal literatuur mondeling woordeskat en skryfwerk n QR kode neem leerders na n pasgemaakte webruimte wat gereeld opgedateer word Op di webruimte is daar ekstra voorbeelde en riglyne drilwerk en groot gedeeltes daarvan is gratis *PISA 2015 Results (Volume I) Excellence and Equity in Education* OECD,2016-12-06 The OECD Programme for International Student Assessment PISA examines not just what students know in science reading and mathematics but what they can do with what they know Results from PISA show educators and policy makers the quality and equity of learning outcomes achieved elsewhere

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reflected political influences more than health or educational needs though this was less true in market based private and charter schools The pandemic was a catalyst for school choice movements across the U S Many parents reacted to school closings by exploring alternatives to traditional public schools including an important and likely permanent innovation small parent created or pod schools As the papers here detail long term student learning loss and health and socioemotional impacts of COVID 19 closings may well last for decades The volume concludes by exploring teacher experiences across different sectors following the pandemic COVID 19 and Schools will be a key resource for academics researchers and advanced students of education education policy and leadership educational research research methods economics sociology and psychology The chapters included in this book were originally published as a special issue of Journal of School Choice

Paper ,1912 **X-kit Literature Series: FET Maru** Colleen Traviss-Lea,2005 Studying the Sciences, Physics - Grades 10-12 Donnette Davis, *PISA 2015 Ergebnisse (Band I) Exzellenz und Chancengerechtigkeit in der Bildung* OECD,2016-12-06 Die Internationale Schulleistungsstudie der OECD PISA untersucht nicht nur was Sch lerinnen und Sch ler in den Bereichen Naturwissenschaften Lesekompetenz und Mathematik wissen sondern auch inwieweit sie dieses Wissen anwenden k nnen Die Ergebnisse von PISA geben Aufschluss ber die **The Guild Reporter** ,1956 **X-kit Literature Series: FET To Kill a Mockingbird** ,2005 **Numeracy and Learning Difficulties** Peter Westwood,2016-09-01 Numeracy and Learning Difficulties provides guidance on how to develop flexible teaching methods and strategies to improve mathematical skills of students It discusses common areas of learning difficulty in mathematics and looks at ways teachers can determine gaps in students knowledge as well as how to develop curricula and problem solving strategies to address these gaps Title List of Documents Made Publicly Available U.S. Nuclear Regulatory Commission,1992 **The Oxford Handbook of Philosophical and Qualitative Assessment in Music Education** David J. Elliott,Marissa Silverman,Gary E. McPherson,2019-07-01 The Oxford Handbook of Philosophical and Qualitative Assessment in Music Education offers global comprehensive and critical perspectives on a wide range of conceptual and practical issues in music education assessment evaluation and feedback as these apply to various forms of music education within schools and communities The central aims of this Handbook focus on broadening and deepening readers understandings of and critical thinking about the problems opportunities spaces and places concepts and practical strategies that music educators and community music facilitators employ develop and deploy to improve various aspects of music teaching and learning around the world Advances in Engineering Design Preeti Joshi,Shakti S. Gupta,Anoop Kumar Shukla,Sachin Singh Gautam,2021-03-31 This book presents select proceedings of the International Conference on Future Learning Aspects of Mechanical Engineering FLAME 2020 The book focuses on latest research in mechanical engineering design and covers topics such as computational mechanics finite element modeling computer aided engineering and analysis fracture mechanics and vibration The book brings together different aspects of engineering design and the contents will be useful for researchers and professionals working in this field

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