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TOTAL
MARKS

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.

FOR OFFICE USE ONLY: MARKER TO ENTER MARKS

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	TOTAL
20	14	12	12	9	9	9	15	11	18	8	13	/150

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Marieta Nel



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Language Assessment and the National Qualifications

Framework Melissa Vieyra-King, Karen Calteaux, 1996 The collection of discussion papers from an October 1995 conference in South Africa focuses on the implications of the country's new National Qualifications Framework NQF a policy initiative for reform and renewal of post apartheid education for language teaching and testing Papers include Introductory Comments Language Assessment and the NQF Edward French Ihron Rensburg The NQF Challenges in the Language Field Schalk Engelbrecht Gerard Schuring Language Education and the National Qualifications Framework An Introduction to Competency Based Education and Training Daryl McLean Standards and Levels in Language Assessment Paul Musker Sebolelo Nomvete The Assessment of Language Outcomes in ABET Implications of an Approach Elizabeth Burroughs Melissa Vieyra King Gabi Witthaus Issues Raised in Plenary Summary conference participants Summing Up Drawing the Issues Together In the Context of Language Education Policy Neville Alexander Summing Up Drawing the Issues Together In the Context of the NQF Jeanne Gamble and Concluding Comments Khetsi Lehoko A list of participants is appended MSE

Functional Numeracy 3:1 Erik Hallendorff, 1999 **Functional Numeracy 3:3** Erik Hallendorff, 1999 Turbophysics Grade 12, **Proceedings of the International Topical Meeting on Nuclear and Hazardous Waste Management, Spectrum ...**, 1992 **Energy Research Abstracts**, 1993 Functional Numeracy 3:2 Erik Hallendorff, 1999

Scientific Basis for Nuclear Waste Management IV: Volume 6 Materials Research Society. Meeting, 1982 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners Editor & Publisher, 1957 The fourth estate *Scientific Basis for Nuclear Waste Management*, 1982 **X-Kit Literature Series: FET Animal Farm**, 2005 *Marking Matric* Vijay Reddy, 2006 The past ten years in South Africa has seen many changes in education the creation of a single department of education common examinations for all learners in public schools in the country a new outcomes based education curriculum which was introduced to learners in the general education and training phase since 1998 and will be introduced to the further education and training phase from 2006 To evaluate the success of these changes South African researchers still use the indicator of student achievement The matriculation examination is the visible high profile and public performance indicator Every year parents learners teachers researchers government officials

policymakers and the general public get involved in the debate around the matric examination with the most frequently asked questions being Did the pass rate go up Are standards dropping Are the results real or have they been manipulated How is our education system doing Are we meeting the development goals What should the matriculation examination of the future look like participants from government national and provincial

X-Kit Literature Series: FET Great Gatsby, 2005

Patents for Inventions. Abridgments of Specifications Great Britain. Patent Office, 1903 **Title List of Documents**

Made Publicly Available U.S. Nuclear Regulatory Commission, 1992 **Scientific Papers of the Bureau of Standards**

United States. Bureau of Standards, 1921 **Progress in Cryptology -- AFRICACRYPT 2009** Bart Preneel, 2009-06-08

AFRICACRYPT 2009 was held during June 21-25 2009 in Gammarth Tunisia After AFRICACRYPT 2008 in Casablanca Morocco it was the second international research conference in Africa dedicated to cryptography The conference received 70 submissions four of these were identified as irregular submissions The remaining papers went through a careful double anonymous review process Every paper received at least three reports papers with a Program Committee member as co-author received more reports After the review period 25 papers were accepted for presentation The authors were requested to revise their papers based on the comments received The program was completed with invited talks by Antoine Joux Ueli Maurer and Nigel Smart First and foremost we would like to thank the members of the Program Committee for the many hours spent on reviewing and discussing the papers thereby producing more than 600 Kb of comments They did an outstanding job We would also like to thank the numerous external reviewers for their assistance We are also indebted to Shai Halevi for the support provided for his excellent Web Submission and Review software package We also wish to heartily thank Sami Ghazali the General Chair and Sami Omar the General Co chair for their efforts in the organization of the conference Special thanks go to the Tunisian Ministry of Communication Technologies the National Digital Certification Agency and the Tunisian Internet Agency for their support of the organization Finally we would like to thank the participants submitters authors and presenters who all together made AFRICACRYPT 2009 a great success I hope that the AFRICACRYPT conference tradition has now taken root and that we will witness a fruitful development of academic research in cryptology in Africa

X-Kit Literature Series: FET Macbeth, 2005 **VII Latin American Congress on Biomedical Engineering CLAIB**

2016, Bucaramanga, Santander, Colombia, October 26th -28th, 2016 Isnardo Torres, John Bustamante, Daniel A. Sierra, 2017-04-05 This volume presents the proceedings of the CLAIB 2016 held in Bucaramanga Santander Colombia 26-28 October 2016 The proceedings presented by the Regional Council of Biomedical Engineering for Latin America CORAL offer research findings experiences and activities between institutions and universities to develop Bioengineering Biomedical Engineering and related sciences The conferences of the American Congress of Biomedical Engineering are sponsored by the International Federation for Medical and Biological Engineering IFMBE Society for Engineering in Biology and Medicine EMBS and the Pan American Health Organization PAHO among other organizations and international agencies to bring

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