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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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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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Lab Mnl Tg Ieb in Biosources Holt Rinehart & Winston,1998 **Biology** Peter William Ayerst,2000 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 Past Papers Biology ,2005 *X-kit Literature Series: FET Julius Ceaser* ,2005
Scientific American ,1889 International Science Between the World Wars N. L. Krementsov,2005 This book addresses the function of international science through a detailed study of international congresses in genetics held from 1899 1939 **Nature** ,1888 **Styles of Scientific Thought** Jonathan Harwood,1993-02-15 In this detailed historical and sociological study of the development of scientific ideas Jonathan Harwood argues that there is no such thing as a unitary scientific method driven by an internal logic Rather there are national styles of science that are defined by different values norms assumptions research traditions and funding patterns The first book length treatment of genetics in Germany *Styles of Scientific Thought* demonstrates the influence of culture on science by comparing the American with the German scientific traditions Harwood examines the structure of academic and research institutions the educational backgrounds of geneticists and cultural traditions among many factors to explain why the American approach was much more narrowly focussed than the German This tremendously rich book fills a gap between histories of the physical sciences in the Weimar Republic and other works on the humanities and the arts during the intellectually innovative 1920s and it will interest European historians as well as sociologists and philosophers of science *Ordinary Geniuses* Gino Segre,2011-08-18 A biography of two maverick scientists whose intellectual wanderlust kick started modern genomics and cosmology Max Delbruck and George Gamow the so called ordinary geniuses of Segre s third book were not as famous or as decorated as some of their colleagues in midtwentieth century physics yet these two friends had a profound influence on how we now see the world both on its largest scale the universe and its smallest genetic code Their maverick approach to research resulted in truly pioneering science Wherever these men ventured they were catalysts for great discoveries Here Segre honors them in his typically inviting and elegant style and shows readers how they were far from ordinary While portraying their personal lives Segre a

scientist himself gives readers an inside look at how science is done collaboration competition the influence of politics the role of intuition and luck and the sense of wonder and curiosity that fuels these extraordinary minds Ordinary Geniuses will appeal to the readers of Simon Singh Amir Aczel and other writers exploring the history of scientific ideas and the people behind them *With and Without Galton* N. L. Kremenťsťov, 2018 In 1865 British polymath Francis Galton published his initial thoughts about the scientific field that would become eugenics The same year Russian physician Vasilii Florinskii addressed similar issues in a sizeable treatise entitled *Human Perfection and Degeneration* Initially unheralded Florinskii's book would go on to have a remarkable afterlife in twentieth and twenty first century Russia In this lucid and insightful work Nikolai Kremenťsov argues that the concept of eugenics brings together ideas values practices and fears energised by a focus on the future It has proven so seductive to different groups over time because it provides a way to grapple with fundamental existential questions of human nature and destiny *With and Without Galton* develops this argument by tracing the life story of Florinskii's monograph from its uncelebrated arrival amid the Russian empire's Great Reforms to its reissue after the Bolshevik Revolution its decline under Stalinism and its subsequent resurgence first as a founding document of medical genetics and most recently as a manifesto for nationalists and racial purists Kremenťsov's meticulously researched biography of a book sheds light not only on the peculiar fate of eugenics in Russia but also on its convoluted transnational history elucidating the field's protean nature and its continuing and contested appeal to diverse audiences multiple local trajectories and global trends It is required reading for historians of eugenics science medicine education literature and Russia and it will also appeal to the general reader looking for a deeper understanding of this challenging subject Publisher's website

Biology 12 Jen Grogan, Ruth Suter, 2000 **Higher Biology Past Papers** Leckie & Leckie, Scottish Qualifications Authority, 2001-11-01 Biology Intermediate 2 Sqa Past Papers HarperCollins Publishers Limited, Scottish Qualifications Authority, 2004-09 **Past Papers Biology**, 2006 **Biology** Peter William Ayerst, 2002 **Bilum Books BIOLOGY Grades 11 and 12 Past Exam Questions 2nd Edition** Nicole Chamalaun, 2020-05 *Past Papers Biology*, 2006
Biology General Sqa Leckie & Leckie, Scottish Qualifications Authority, 2006-09-01 Pre-examination Guide to H.S.C. Biology Papers I, II & III Past Exam, 1976

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