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NATIONAL SENIOR CERTIFICATE EXAMINATION
NOVEMBER 2021

MATHEMATICS: PAPER I

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Time: 3 hours

150 marks

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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.

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in this challenging subject The sub title of the book is Maths Made Easy and this is what it aims to do Kevin ensures that his work is up to date at all times and that it is suitable for IEB and National Curriculum students There are exercises in the front of the book and solutions to problems at the back *Secondary School External Examination Systems* Barend Vlaardingerbroek, Neil Taylor, 2009 Summative assessment has been a contentious issue in educational circles for several decades particularly high stakes assessment events which arise at various junctures of the school cycle especially those at the end of it The French Baccalaureat and English A Levels and their numerous clones throughout the francophone and anglophone worlds are household names and represent milestone events in people s lives as their outcomes are principal determinants of young people s future prospects These examinations are external they are devised conducted and processed by agencies outside the schools usually ministerial examination units As such they act as blind arbiters of student achievement providing the proverbial level playing field which ensures the comparability of outcomes In the pyramidal school structures of yesteryear examinations acted as filters regulating the progression of pupils to subsequent tiers of formal education Exit points occurred from primary school level up from where unsuccessful candidates could enter the labour force and or embark on occupationally specific further education and training With the modernisation of the labour market and an ever higher social demand for access to higher levels of formal education the filtering function of examinations at lower levels of schooling has been gradually eroded while burgeoning numbers of students at the upper secondary level have brought about reforms that include curricular diversification and sometimes radical overhauls of terminating assessment systems including the modification and in some instances abandonment of external examinations This edited volume brings together the experiences of twenty examination systems from around the world to show how these dynamic entities have adapted over time to the changing context of schooling Following an introduction by Stephen P Heyneman of World Bank repute there are sixteen chapters presenting Country Case Studies which have been written up under common subheadings thereby highlighting the comparative nature of the work and facilitating cross referencing The subsequent four chapters elaborate on the theme of external examinations beyond national borders including a contribution by the International Baccalaureate Organisation A defining feature of the work is the attention it pays to what it calls the nuts and bolts of external examinations from question setting to grading procedures These are it is argued instrumental in nurturing and maintaining public confidence in external examinations The book will be of immense value to people involved in educational policy studies especially strategic educational planning as well as those directly concerned with formal assessment The work has been written to appeal to a wide audience of informed persons it is accessible to teachers and interested laypeople as well as to academics

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