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NATIONAL SENIOR CERTIFICATE EXAMINATION
NOVEMBER 2022

PHYSICAL SCIENCES: PAPER I

EXAMINATION NUMBER

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Time: 3 hours

200 marks

PLEASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. This question paper consists of 31 pages and a Data Sheet of 2 pages (i–ii). Please check that your question paper is complete.
2. Read the questions carefully.
3. Answer ALL the questions on the question paper and hand it in at the end of the examination. Remember to write your examination number in the space provided above.
4. Use the data and formulae whenever necessary.
5. Show your working in all calculations.
6. Units need not be included in the working of calculations, but appropriate units should be shown in the answer.
7. Answers must be expressed in decimal format, not left as proper fractions.
8. Where appropriate, express answers to TWO decimal places.
9. It is in your own interest to write legibly and to present your work neatly.
10. TWO blank pages (pages 29–30) are included at the end of the paper. If you run out of space for a question, use these pages. Clearly indicate the number of your answer should you use this extra space. There is a spare copy of graph paper on page 31.

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	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Total
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QUESTION 1 MULTIPLE CHOICE

Answer these questions on the multiple-choice answer grid below. Make a clear cross (X) in the box corresponding to the letter that you consider to be correct. Every question has only one correct answer.

A	B	<input checked="" type="checkbox"/> C	D
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Here the option C has been marked as an example.

Past Exam Papers Grade 12 Ieb

S Marginson



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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 addisionele taalleerder verstaan Dit is geskryf volgens die nuutste AWS 2017 en is modulêr 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 **X-Kit Literature Series: FET Great Gatsby**, 2005 *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 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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