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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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Mark	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Total
Marker Initial											
Moderated Mark											

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 C D Here the option C has been marked as an example.

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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 **Physics Handbook & Study Guide Grade 11-12 IEB** Kevin Smith,2024-02-01 A comprehensive summary of Grade 11 12 Physics Simple logical summaries with example exam questions and work through solutions The book covers the fundamentals of Grade 11 12 Physics and complements the material in any class text

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weapon of mass destruction a genius who founded scientific militarism and then let it destroy him His life story embodies the great conflicts of American society its genius its weaknesses and even its essential morality How did an aesthete man uninterested in the acquisition of power become the leader of American science the most powerful research community in the world And how did he with all his intellectual and social advantages lose his power and become regarded by many as an unfulfilled if not failed scientist **Fortune** Henry R. Luce,1936 **Scientific American** ,1886 Monthly magazine devoted to topics of general scientific interest **INIS Atomindex** ,1996 **Nature** ,1888 **LOW FREQUENCY FLUCTUATION VOLTAGES IN VACUUM TUBES.** ROBERT WORTHINGTON BOGLE,1948 *The Software Encyclopedia 2001* ,2001

Diversity ,1989

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Table of Contents Ieb Physical Science Exam Papers

1. Understanding the eBook Ieb Physical Science Exam Papers
 - The Rise of Digital Reading Ieb Physical Science Exam Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Ieb Physical Science Exam Papers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ieb Physical Science Exam Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ieb Physical Science Exam Papers
 - Personalized Recommendations
 - Ieb Physical Science Exam Papers User Reviews and Ratings
 - Ieb Physical Science Exam Papers and Bestseller Lists

5. Accessing Ieb Physical Science Exam Papers Free and Paid eBooks
 - Ieb Physical Science Exam Papers Public Domain eBooks
 - Ieb Physical Science Exam Papers eBook Subscription Services
 - Ieb Physical Science Exam Papers Budget-Friendly Options
6. Navigating Ieb Physical Science Exam Papers eBook Formats
 - ePUB, PDF, MOBI, and More
 - Ieb Physical Science Exam Papers Compatibility with Devices
 - Ieb Physical Science Exam Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ieb Physical Science Exam Papers
 - Highlighting and Note-Taking Ieb Physical Science Exam Papers
 - Interactive Elements Ieb Physical Science Exam Papers
8. Staying Engaged with Ieb Physical Science Exam Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ieb Physical Science Exam Papers
9. Balancing eBooks and Physical Books Ieb Physical Science Exam Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ieb Physical Science Exam Papers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ieb Physical Science Exam Papers
 - Setting Reading Goals Ieb Physical Science Exam Papers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ieb Physical Science Exam Papers
 - Fact-Checking eBook Content of Ieb Physical Science Exam Papers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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