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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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Page 2 of 31

**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.

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**C Cleary**



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### **Table of Contents Ieb Grade Past Exam Papers**

1. Understanding the eBook Ieb Grade Past Exam Papers
  - The Rise of Digital Reading Ieb Grade Past Exam Papers
  - Advantages of eBooks Over Traditional Books
2. Identifying Ieb Grade Past 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 Grade Past Exam Papers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ieb Grade Past Exam Papers
  - Personalized Recommendations
  - Ieb Grade Past Exam Papers User Reviews and Ratings
  - Ieb Grade Past Exam Papers and Bestseller Lists

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