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

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**Ronel Bernardo**



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