

Answer all the questions in the spaces provided.

- 1 (a) Distinguish between vector and scalar quantities.

Scalar quantities have magnitude only, however, vector quantities have both magnitude and direction. (2)

- (b) The electric field strength E at a distance x from an isolated point charge Q is given by the equation

$$E = \frac{Q}{x^2 b}$$

where b is a constant.

- (i) Use the definition of electric field strength to show that E has SI base units of $\text{kg m A}^{-1} \text{s}^{-3}$.

$$E = \frac{V}{d} \rightarrow$$

$$E = \frac{V}{Q} \rightarrow \frac{\text{kg m s}^{-2}}{\text{A s}} \rightarrow \text{kg m A}^{-1} \text{s}^{-3}$$

$$R = V$$

$$R = \frac{V}{I}$$

$$I = \frac{Q}{t}$$

(2)

- (ii) Use the units for E given in (b)(i) to determine the SI base units of b .

$$b = \frac{Q}{E x^2} \rightarrow \frac{\text{A s}}{\text{kg m A}^{-1} \text{s}^{-3} \times \text{m}^2}$$

$$\frac{\text{A s}}{\text{kg m}^3 \text{A}^{-1} \text{s}^{-3}} \rightarrow \text{kg}^{-1} \text{m}^{-3} \text{A}^2 \text{s}^4$$

SI base units of b $\text{kg}^{-1} \text{m}^{-3} \text{A}^2 \text{s}^4$ (2)

[Total: 6]

6/6

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Table of Contents **Past Physics Papers Gr12012 Gauteng**

1. Understanding the eBook **Past Physics Papers Gr12012 Gauteng**
 - The Rise of Digital Reading **Past Physics Papers Gr12012 Gauteng**
 - Advantages of eBooks Over Traditional Books
2. Identifying **Past Physics Papers Gr12012 Gauteng**
 - 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 **Past Physics Papers Gr12012 Gauteng**
 - User-Friendly Interface
4. Exploring eBook Recommendations from **Past Physics Papers Gr12012 Gauteng**
 - Personalized Recommendations
 - **Past Physics Papers Gr12012 Gauteng** User Reviews and Ratings

- Past Physics Papers Gr12012 Gauteng and Bestseller Lists
- 5. Accessing Past Physics Papers Gr12012 Gauteng Free and Paid eBooks
 - Past Physics Papers Gr12012 Gauteng Public Domain eBooks
 - Past Physics Papers Gr12012 Gauteng eBook Subscription Services
 - Past Physics Papers Gr12012 Gauteng Budget-Friendly Options
- 6. Navigating Past Physics Papers Gr12012 Gauteng eBook Formats
 - ePub, PDF, MOBI, and More
 - Past Physics Papers Gr12012 Gauteng Compatibility with Devices
 - Past Physics Papers Gr12012 Gauteng Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Past Physics Papers Gr12012 Gauteng
 - Highlighting and Note-Taking Past Physics Papers Gr12012 Gauteng
 - Interactive Elements Past Physics Papers Gr12012 Gauteng
- 8. Staying Engaged with Past Physics Papers Gr12012 Gauteng
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Past Physics Papers Gr12012 Gauteng
- 9. Balancing eBooks and Physical Books Past Physics Papers Gr12012 Gauteng
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Past Physics Papers Gr12012 Gauteng
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Past Physics Papers Gr12012 Gauteng
 - Setting Reading Goals Past Physics Papers Gr12012 Gauteng
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Past Physics Papers Gr12012 Gauteng
 - Fact-Checking eBook Content of Past Physics Papers Gr12012 Gauteng
 - 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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