

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 Ocr Physics January 2013 Past Paper G495

1. Understanding the eBook Ocr Physics January 2013 Past Paper G495
 - The Rise of Digital Reading Ocr Physics January 2013 Past Paper G495
 - Advantages of eBooks Over Traditional Books
2. Identifying Ocr Physics January 2013 Past Paper G495
 - 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 Ocr Physics January 2013 Past Paper G495
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ocr Physics January 2013 Past Paper G495
 - Personalized Recommendations
 - Ocr Physics January 2013 Past Paper G495 User Reviews and Ratings
 - Ocr Physics January 2013 Past Paper G495 and Bestseller Lists
5. Accessing Ocr Physics January 2013 Past Paper G495 Free and Paid eBooks
 - Ocr Physics January 2013 Past Paper G495 Public Domain eBooks
 - Ocr Physics January 2013 Past Paper G495 eBook Subscription Services
 - Ocr Physics January 2013 Past Paper G495 Budget-Friendly Options
6. Navigating Ocr Physics January 2013 Past Paper G495 eBook Formats

- ePub, PDF, MOBI, and More
- Ocr Physics January 2013 Past Paper G495 Compatibility with Devices
- Ocr Physics January 2013 Past Paper G495 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ocr Physics January 2013 Past Paper G495
 - Highlighting and Note-Taking Ocr Physics January 2013 Past Paper G495
 - Interactive Elements Ocr Physics January 2013 Past Paper G495
- 8. Staying Engaged with Ocr Physics January 2013 Past Paper G495
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ocr Physics January 2013 Past Paper G495
- 9. Balancing eBooks and Physical Books Ocr Physics January 2013 Past Paper G495
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ocr Physics January 2013 Past Paper G495
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Ocr Physics January 2013 Past Paper G495
 - Setting Reading Goals Ocr Physics January 2013 Past Paper G495
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ocr Physics January 2013 Past Paper G495
 - Fact-Checking eBook Content of Ocr Physics January 2013 Past Paper G495
 - 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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