



Western Cape
Government

Education

Western Cape Education
Department

METRO EAST EDUCATION
DISTRICT

GRADE 12

PHYSICAL SCIENCES PAPER 1 (Physics)
SEPTEMBER 2021

MARKS: 100

TIME: 2 hours

INSTRUCTIONS

1. Answer all questions
2. A calculator may be used
3. Number your work correctly according to the numbering system used
4. Write neatly and legibly

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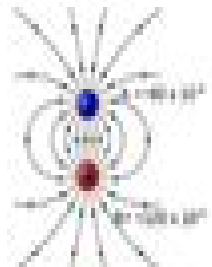
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Page 7 of 10

QUESTION 7

7.1. An electric field in a region of space in which an electric charge experiences a force F is E . (5)

7.2. Given that
 $q = 1,6 \times 10^{-19} \text{ C}$ is the charge of an electron e^-
 $n = 5,0 \times 10^{18}$ electrons e^- (5)

7.3.  (5)

<input checked="" type="checkbox"/>	shape between charges
<input checked="" type="checkbox"/>	shape inside charges
<input checked="" type="checkbox"/>	direction

7.4.  (5)

7.5. $F_g = F_e$ (1)
 \Rightarrow any formula (1)
 $mg = \frac{kq_1q_2}{r^2}$ (1)
 $(0,025 \times 9,8) = \frac{(9 \times 10^9)(2 \times 10^{-6})(2 \times 10^{-6})}{r^2}$ (1)
 $r = 0,025 \text{ m}$ (1) \Rightarrow $2,5 \text{ cm}$ (1)

7.6.  (5)

February March 2014 Physics Paper1 Memo Dbe

Zhe Xu



February March 2014 Physics Paper1 Memo Dbe:

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Table of Contents February March 2014 Physics Paper1 Memo Dbe

1. Understanding the eBook February March 2014 Physics Paper1 Memo Dbe
 - The Rise of Digital Reading February March 2014 Physics Paper1 Memo Dbe
 - Advantages of eBooks Over Traditional Books
2. Identifying February March 2014 Physics Paper1 Memo Dbe
 - 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 February March 2014 Physics Paper1 Memo Dbe
 - User-Friendly Interface
4. Exploring eBook Recommendations from February March 2014 Physics Paper1 Memo Dbe
 - Personalized Recommendations
 - February March 2014 Physics Paper1 Memo Dbe User Reviews and Ratings
 - February March 2014 Physics Paper1 Memo Dbe and Bestseller Lists

5. Accessing February March 2014 Physics Paper1 Memo Dbe Free and Paid eBooks
 - February March 2014 Physics Paper1 Memo Dbe Public Domain eBooks
 - February March 2014 Physics Paper1 Memo Dbe eBook Subscription Services
 - February March 2014 Physics Paper1 Memo Dbe Budget-Friendly Options
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 - ePub, PDF, MOBI, and More
 - February March 2014 Physics Paper1 Memo Dbe Compatibility with Devices
 - February March 2014 Physics Paper1 Memo Dbe Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of February March 2014 Physics Paper1 Memo Dbe
 - Highlighting and Note-Taking February March 2014 Physics Paper1 Memo Dbe
 - Interactive Elements February March 2014 Physics Paper1 Memo Dbe
8. Staying Engaged with February March 2014 Physics Paper1 Memo Dbe
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers February March 2014 Physics Paper1 Memo Dbe
9. Balancing eBooks and Physical Books February March 2014 Physics Paper1 Memo Dbe
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection February March 2014 Physics Paper1 Memo Dbe
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine February March 2014 Physics Paper1 Memo Dbe
 - Setting Reading Goals February March 2014 Physics Paper1 Memo Dbe
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of February March 2014 Physics Paper1 Memo Dbe
 - Fact-Checking eBook Content of February March 2014 Physics Paper1 Memo Dbe
 - 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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