



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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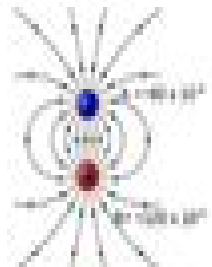
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Page 7 of 10

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 outside charges
<input checked="" type="checkbox"/>	direction

7.4.  (5)

7.5. $F_g = F_e$ (1)
 \therefore any formula (1)
 $mg = \frac{kqQ}{r^2}$ (1)
 $(0,025 \text{ kg}) \times 9,8 = \frac{(9 \times 10^9 \text{ N m}^2 \text{ C}^{-2}) (1,6 \times 10^{-19} \text{ C}) (Q)}{(0,025 \text{ m})^2}$ (1)
 $Q = 0,025 \text{ kg} \times 9,8 \times (0,025 \text{ m})^2 \times \frac{1}{(9 \times 10^9 \text{ N m}^2 \text{ C}^{-2}) (1,6 \times 10^{-19} \text{ C})}$ (1)

7.6.  (5)

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Yicheng Fang



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Table of Contents Memo For Physical Science P1 Prelims

1. Understanding the eBook Memo For Physical Science P1 Prelims
 - The Rise of Digital Reading Memo For Physical Science P1 Prelims
 - Advantages of eBooks Over Traditional Books
2. Identifying Memo For Physical Science P1 Prelims
 - 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 Memo For Physical Science P1 Prelims
 - User-Friendly Interface
4. Exploring eBook Recommendations from Memo For Physical Science P1 Prelims
 - Personalized Recommendations
 - Memo For Physical Science P1 Prelims User Reviews and Ratings
 - Memo For Physical Science P1 Prelims and Bestseller Lists
5. Accessing Memo For Physical Science P1 Prelims Free and Paid eBooks
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- Memo For Physical Science P1 Prelims Budget-Friendly Options
- 6. Navigating Memo For Physical Science P1 Prelims eBook Formats
 - ePub, PDF, MOBI, and More
 - Memo For Physical Science P1 Prelims Compatibility with Devices
 - Memo For Physical Science P1 Prelims Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Memo For Physical Science P1 Prelims
 - Highlighting and Note-Taking Memo For Physical Science P1 Prelims
 - Interactive Elements Memo For Physical Science P1 Prelims
- 8. Staying Engaged with Memo For Physical Science P1 Prelims
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Memo For Physical Science P1 Prelims
- 9. Balancing eBooks and Physical Books Memo For Physical Science P1 Prelims
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Memo For Physical Science P1 Prelims
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Memo For Physical Science P1 Prelims
 - Setting Reading Goals Memo For Physical Science P1 Prelims
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Memo For Physical Science P1 Prelims
 - Fact-Checking eBook Content of Memo For Physical Science P1 Prelims
 - 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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