



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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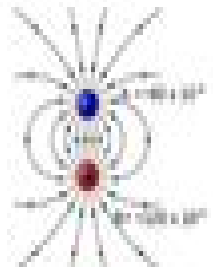
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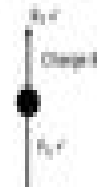
QUESTION 7

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)

☒	shape between charges
☒	shape inside charges
☒	direction

7.4.  (5)

7.5. $F_1 = 0,5$ N
 $F_2 = 0,5$ N
 $\theta = 90^\circ$
 $F = \sqrt{F_1^2 + F_2^2}$
 $F = \sqrt{0,5^2 + 0,5^2}$
 $F = 0,7071067812$ N (5)

7.6.  (5)

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Table of Contents Prelim 2014 Physical Science P1 Memo

1. Understanding the eBook Prelim 2014 Physical Science P1 Memo
 - The Rise of Digital Reading Prelim 2014 Physical Science P1 Memo
 - Advantages of eBooks Over Traditional Books
2. Identifying Prelim 2014 Physical Science P1 Memo
 - 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 Prelim 2014 Physical Science P1 Memo
 - User-Friendly Interface
4. Exploring eBook Recommendations from Prelim 2014 Physical Science P1 Memo
 - Personalized Recommendations
 - Prelim 2014 Physical Science P1 Memo User Reviews and Ratings
 - Prelim 2014 Physical Science P1 Memo and Bestseller Lists
5. Accessing Prelim 2014 Physical Science P1 Memo Free and Paid eBooks
 - Prelim 2014 Physical Science P1 Memo Public Domain eBooks
 - Prelim 2014 Physical Science P1 Memo eBook Subscription Services
 - Prelim 2014 Physical Science P1 Memo Budget-Friendly Options

6. Navigating Prelim 2014 Physical Science P1 Memo eBook Formats
 - ePub, PDF, MOBI, and More
 - Prelim 2014 Physical Science P1 Memo Compatibility with Devices
 - Prelim 2014 Physical Science P1 Memo Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Prelim 2014 Physical Science P1 Memo
 - Highlighting and Note-Taking Prelim 2014 Physical Science P1 Memo
 - Interactive Elements Prelim 2014 Physical Science P1 Memo
8. Staying Engaged with Prelim 2014 Physical Science P1 Memo
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Prelim 2014 Physical Science P1 Memo
9. Balancing eBooks and Physical Books Prelim 2014 Physical Science P1 Memo
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Prelim 2014 Physical Science P1 Memo
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Prelim 2014 Physical Science P1 Memo
 - Setting Reading Goals Prelim 2014 Physical Science P1 Memo
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Prelim 2014 Physical Science P1 Memo
 - Fact-Checking eBook Content of Prelim 2014 Physical Science P1 Memo
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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