



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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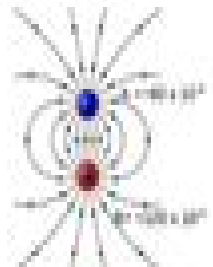
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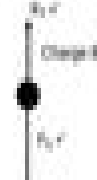
QUESTION 7

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. $F_1 = 0,5 \text{ N}$ if any formula
 $m_1 = \frac{F_1}{g}$
 $(0,025 \text{ kg}) \times (9,8 \text{ m/s}^2) = \frac{(0,025 \text{ kg}) \times (9,8 \text{ m/s}^2)}{0,025 \text{ m}}$
 $1 = 0,025 \text{ m/s}^2 \quad \Delta G(20\%) \quad 1 = 0,025 \text{ m/s}^2$ (5)

7.6.  (5)

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