



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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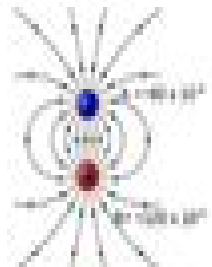
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QUESTION 7

7.1 An electric field in a region of space in which an electron charge experiences a force -4 N (5)

7.2 Compute
a) the electric field strength E (2)
b) the electric force F (2)

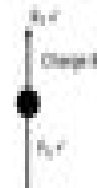
7.3



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

(5)

7.4



(2)

7.5

$$F_g = F_e$$

F_g = any formula

$$mg = \frac{kq_1q_2}{r^2}$$

$$(0,02)(9,8) = \frac{(9 \times 10^9)(2 \times 10^{-6})(2 \times 10^{-6})}{r^2}$$

$$r = 0,0298 \text{ m} \quad \Delta C(20^\circ\text{C}) = 0,03 \text{ m}$$

(5)

7.6



(2)

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Yi-Tong Ma



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