



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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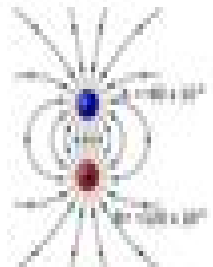
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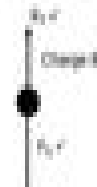
QUESTION 7

7.1. An electric field in a region of space in which an electron charge experiences a force -4 N (2)

7.2. Compute E
 $E = \frac{F}{q} = \frac{4 \text{ N}}{1,6 \times 10^{-19} \text{ C}} = 2,5 \times 10^{19} \text{ N/C}$ (3)

7.3.  (3)

☒	shape between charges
☒	shape inside charges
☒	direction

7.4.  (2)

7.5. $F_g = F_e$ (1)
 if any formula (1)
 $m \cdot g = \frac{k \cdot q_1 \cdot q_2}{r^2}$ (1)
 $(0,0025 \text{ kg}) \cdot 9,8 = \frac{(9 \times 10^9 \text{ N m}^2 \text{ C}^{-2}) \cdot (1 \times 10^{-6} \text{ C}) \cdot (1 \times 10^{-6} \text{ C})}{r^2}$ (1)
 $r = 0,025 \text{ m} \text{ or } 2 \text{ cm}$ (1) $40 \text{ (2000)} \text{ V} = 0,025 \text{ m}$ (2)

7.6.  (2)

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