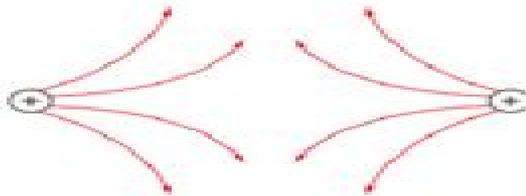


Unit 3

Chapter 2 Test Answers Electric and magnetic fields

Question 1

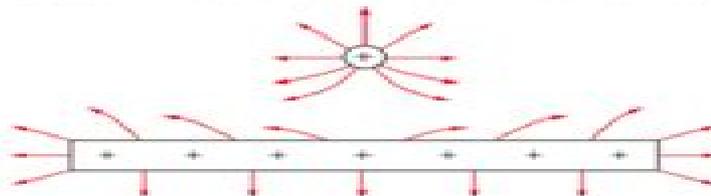
a



Both circles labelled with the same charge

(1 mark)

b



Lines at top of circle radiating from centre of circle and pointing away (1 mark)

Lines coming out of bottom of circle starting down but moving left and right away from plate arrows pointing away from circle (1 mark)

Lines going up with those directly below circle bending to left and right; bend away from circle, lessening for lines further from circle (1 mark)

Question 2

a negative (1 mark)

b $F = \frac{kq_1q_2}{r^2} = mg$ (1 mark)

$$\frac{9.0 \times 10^9 \times 4.72 \times 10^{-7} \times q_2}{0.02^2} = 0.32 \times 9.8$$

$$q_2 = \frac{3.136 \times 0.02^2}{9.0 \times 10^9 \times 4.72 \times 10^{-7}} = 2.95 \times 10^{-7} \text{ C} \quad (2 \text{ marks})$$

Chapter 24 Magnetic Fields Answers

Frank Eugene Austin



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