(25)

QUESTION 7 (Start on a new page)

7.1 The diagram below shows Q₁ with a charge of +1.0 x 10⁻⁶ C placed 10 cm from a charge Q₂ with a charge of +2.0 x 10⁻⁶ C.



7.1.1 State Coulomb's Law of electrostatics in words.

7.1.2 The net electrostatic force exerted on an electron placed at point X is zero newton.

Calculate the distance (in cm) between Q₁ and point X. (5)

7.2 M is a positive point charge.

7.2.1 Sketch the electric field pattern caused by M. (2)

P and T are two points some distance to the right of M. The distance between P and T is 3 mm, as the sketch below illustrates.



The magnitudes of the electric field at points P and T is 4,0 x 10° N-C and 2, 5 x 10° N-C respectively

- 7.2.2 Define, in words, the term electric field at a point. (2)
- 7.2.3 Calculate the magnitude of the charge on M. (6)

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