#### Question 4

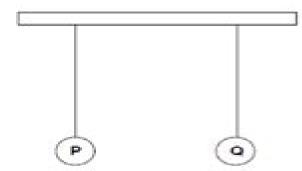
- 4 A bullet is fired at 970 m·s<sup>-1</sup> in an easterly direction. It reaches a target 200 m away, only 0,23 seconds later. Calculate:
  - 4.1 the magnitude and direction of the acceleration of the bullet
  - 4.2 the magnitude of the velocity with which the bullet strikes the target.

(3)

[06]

#### Question 5

Two identical insulated, graphite-coated polystyrene spheres are suspended from threads. The spheres are held a small distance apart. The charges on the Spheres P and Q are – 2,4 nC and + 5,6 nC respectively.



When the spheres are released they move towards each other.

 5.1 Explain why the spheres move towards each other when they are released.

The two spheres now touch each other and then separate.

- 5.2 Calculate the charge on each sphere after they touch and separate. (2)
- 5.3 Calculate the number of electrons transferred during (4) contact.
- 5,4 Which way will electrons move? Write only from P to
  Q, or from Q to P, or neither way?

  (1)
- 5.5 Explain your answer to Question 5.4. (2)

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