

Mark schemes

Q1.

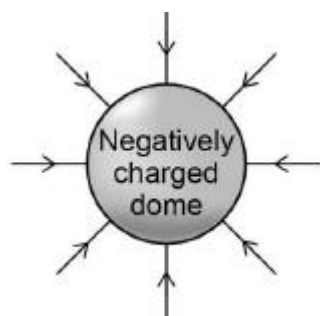
(a) negative

1

(b) repulsion

1

(c)



1

(d) resistance

1

(e) ionised

1

(f) electrons

1

(g) energy transferred = $0.000\,002 \times 300\,000$

1

energy transferred = 0.6 (J)

1

[8]

Q2.

(a) electrons

1

electrons

1

(b) a positive charge

1

(c) a force of repulsion

1

the rods have the same charge

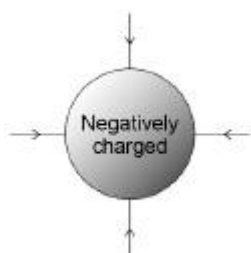
or

the rods are both negatively charged

dependent on scoring first marking point

1

(d)



1

(e)



1

[7]