Mark schemes

Q1.

(a)   50 hertz

1

(b)   230 volts

1

[2]

Q2.

(a)   brown

1

(b)   blue

1

(c)

1

[3]

Q3.

(a)   polarity of the potential difference doesn't change

allow direction of the potential difference doesn't change

1

(b) $E = QV$

1

(c) $5010 = Q \times 12$

1

$Q = \dfrac{5010}{12}$

1

$Q = 417.5$ (C)

allow 418 (C)

1

[5]