

STRAND 5

ELECTRICITY

[14 marks]

1	A	B	C	D
2	A	B	C	D
3	A	B	C	D

4) net electric field at point X

(2 marks)

5) (i) main purpose

(1 mark)

5) (ii) electric field

(1 mark)

5) (iii) charge

(1 mark)

5) (iv) number

(1 mark)

3) (i) direction	(1 mark)
3) (ii) magnetic force	(1 mark)
4) (i) direction	(1 mark)
4) (ii) radius	(1 mark)
5) (i) speed, v	(1 mark)
5) (ii) direction	(1 mark)
5) (iii) induced current	(1 mark)
6) number of turns	(1 mark)

6) (i) total resistance

(1 mark)

6) (ii) unknown resistor R

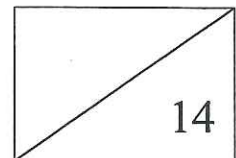
(2 marks)

6) (iii) power

(1 mark)

7) Fuse

(1 mark)



STRAND 6

ELECTROMAGNETISM

[10 marks]

1	A	B	C	D
2	A	B	C	D

1	A	B	C	D
2	A	B	C	D

3) (i) half-life	(1 mark)
4) $a =$ $b =$	(1 mark)
5) (i) type of charge	(½ mark)
5) (ii) name	(½ mark)
6) (i) threshold frequency	(1 mark)
6) (ii) work function	(1 mark)
6) (ii) Planck's constant	(1 mark)

