

Question number	Answer	Notes	Marks
2 (a) (i)	C; A is incorrect because it is a thermistor B is incorrect because it is a fixed resistor D is incorrect because it is a variable resistor		1
(ii)	B; A is incorrect because it is a thermistor C is incorrect because it is a LDR D is incorrect because it is a variable resistor		1
(b) (i)	power = current \times voltage;	allow rearrangements and standard symbols e.g. $P = I \times V$	1
(ii)	substitution OR rearrangement; evaluation to 2 or more s.f.; e.g. $2200 = \text{current} \times 230$ OR $\text{current} = \text{power}/\text{voltage}$ (current =) 9.6 (A)	9.565... OR 9.57 condone rounding to 9.5 or 9.56	2
(iii)	D (13 A); A is incorrect because this fuse would blow in normal operation B is incorrect because this fuse would blow in normal operation C is incorrect because this fuse would blow in normal operation		1
(iv)	any two from: fuse (wire) melts / eq.; circuit is broken; preventing heater from overheating;	condone 'fuse blows' allow current is cut off / eq.	2

Total for question 2 = 8 marks