

Question number	Answer	Notes	Marks
5 (a)	wires have a higher current / voltage;	allow idea that if one breaks the rest will keep working / some can be on but not others / eq	1
(b) (i)	power = current $\times$ voltage;	allow standard symbols and rearrangements e.g. $P = I \times V$ reject C for current, W for power	1
(ii)	substitution; rearrangement; evaluation;  e.g. $2800 = \text{current} \times 230$ (current $\Rightarrow$ ) $2800 / 230$ (current $\Rightarrow$ ) 12 (A)	in either order -1 for POT error  allow 12.17...(A)	3
(iii)	(current = $12 / 48 \Rightarrow$ ) 0.25 (A)	allow ecf from (ii)	1

Total for Question 5 = 6 marks