

Question number	Answer	Notes	Marks																								
2 (a) (i)	power = voltage x current;	allow rearrangements and use of standard symbols e.g. $P = V \times I$ do not allow c/C/A for current	1																								
(ii)	substitution; rearrangement; evaluation; e.g. $6.5 = 230 \times I$ $(I =) 6.5 / 230$ $(I =) 0.028 \text{ (A)}$	allow 0.03, 0.0283, 0.02826... (A) do not allow 0.02 (A)	3																								
2 (b)	1 mark for each correct;;; <table border="1" data-bbox="280 792 1042 1167"> <thead> <tr> <th>S1</th><th>S2</th><th>S3</th><th>Lamp</th></tr> </thead> <tbody> <tr> <td>up</td><td>up</td><td>up</td><td>on</td></tr> <tr> <td>down</td><td>down</td><td>down</td><td>off</td></tr> <tr> <td>up</td><td>up</td><td>down</td><td>off</td></tr> <tr> <td>down</td><td>up</td><td>up</td><td>off</td></tr> <tr> <td>up</td><td>down</td><td>down</td><td>on</td></tr> </tbody> </table>	S1	S2	S3	Lamp	up	up	up	on	down	down	down	off	up	up	down	off	down	up	up	off	up	down	down	on		3
S1	S2	S3	Lamp																								
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Total for question 2 = 7 marks