

Question number			Answer	Accept	Reject	Marks
7	(a)		B			1
	(b)	(i)	Word equation or $V_p I_p = V_s I_s$ ;	$V_p/V_s = I_s/I_p$ or $V_s/V_p = I_p/I_s$ or $I_1 V_1 = I_2 V_2$		1
		(ii)	Correct equation substituted OR rearranged; Answer; $V_p/V_s = I_s/I_p$ or $V_s/V_p = I_p/I_s$ e.g. $230 \times 0.25 = 12 \times I_s$ , so $I_s = (230 \times 0.25) \div 12$ $= 4.8$ (A)	Bald answer;;  4.79 (A) , 4.792 (A)		2
	(c)		Two of  MP1 Idea of energy / power lost; MP2 Idea of efficiency $\neq$ 100%; MP3 Idea of less available energy/power/voltage/current; MP4 Idea of resistance increasing (with temperature);			2
					<b>Total</b>	<b>6</b>