

Question number	Answer	Notes	Marks
7 (a)	fewer turns on the secondary;	allow RA	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; evaluation;  e.g. $230 \times I_p = 5.5 \times 1.0$ OR $I_p = V_s I_s / V_p$ ( $I_p =$ ) 0.024 (A)	       allow 0.0239...(A) allow 0.02 (A) if supported by working	2
(c)	any two from: MP1. input power increases;  MP2. (input) voltage remains the same; MP3. (input) current increases;	allow energy for power	2

**Total for question 7 = 6 marks**