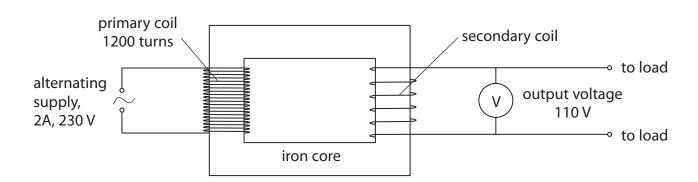
(b) Suggest two reasons why using a graph to find the refr than simply calculating it using a pair of angles from th	active index is a better method e table.
1	
2	
(Tot	tal for Question 6 = 10 marks)

BLANK PAGE



PMT

7 The diagram shows a transformer that is 100% efficient.



- (a) (i) State the equation linking input power and output power for the transformer. (1)
 - (ii) Calculate the output current of the transformer. (2)

output current = A

- (b) (i) State the equation linking input voltage, output voltage and turns ratio for the transformer.
 - (ii) Calculate the number of turns on the secondary coil of the transformer. (2)

number of turns =

(c) Explain how a transformer works.	
In your answer, you should include the reasons f	or using
• two coils	
an iron core	
 an alternating supply 	
	(5)
	(Total for Question 7 = 11 marks)

