) Why does the heating element in the kettle get hot when its electrical supply is switched on?	
	(2)
) The power of the heating element in the kettle is 2000 W when it is connected t 230 V mains supply.	o a
(i) State the equation linking power, current and voltage.	(1)
	(1)
(ii) Show that the current in the heating element is approximately 9 A.	(2)
	(2)
Current =	A
(iii) The plug of the kettle has a fuse.	
Fuses are available in values of	
1 A 3 A 7 A 13 A	
Identify the fuse that is the most suitable for this kettle, and explain why.	(2)
	(2)
	3 marks)

