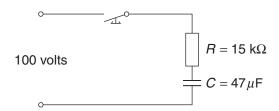
## Question 20 (5 marks)

An electrical circuit is shown.



Calculate, showing all working:

(a)	the time constant for the circuit;	2
(b)	the maximum circuit current;	1
(c)	the value of resistance to be added to change the time constant to one second.	2