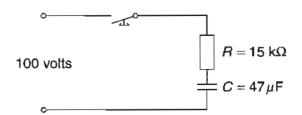
Question 20 (5 marks)

An electrical circuit is shown.



2

1

Calculate, showing all working:

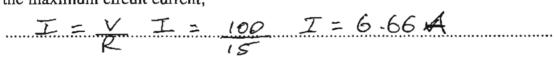
((a)	}	the	time	constant	for	the	circu	it:

5 100 x 15

= 54' 53.62'

.....

(b) the maximum circuit current;



(c) the value of resistance to be added to change the time constant to one second. 2

\$	
45/54/54/54/54/54/54/54/54/54/54/54/54/5	***************************************
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