Electrotechnology
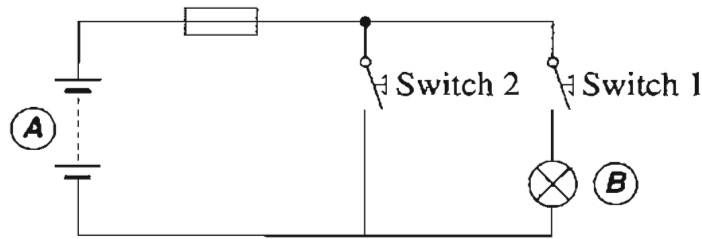
Section II (continued)

Question 19 (7 marks)

An electrical circuit is shown.

(a)   Identify the components Ⓐ and Ⓑ.

		Component	
(i)	Ⓐ	Battery	1
(ii)	Ⓑ	Lamp	1

(b)   Describe what will happen if Switch 1 is closed.   2

The current will pass through the lamp
and the lamp will operate. As current
will always take the easiest path

(c)   Describe what will happen if Switch 1 remains closed and Switch 2 is   3
also closed.

The current will take the easiest
path therefore the lamp will not
turn on and the circuit will
now be shorting.