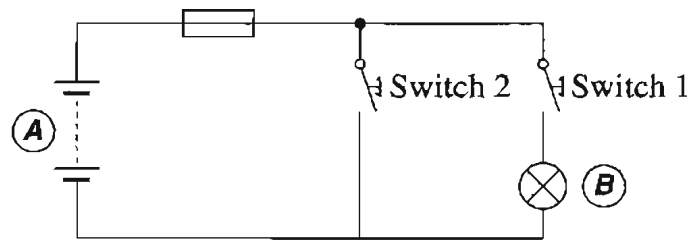


Electrotechnology

Section II (continued)

Question 19 (7 marks)

An electrical circuit is shown.



(a) Identify the components **(A)** and **(B)**.

		Component	
(i)	(A)	Battery, volts ^{power} supply	1
(ii)	(B)	resistor . ohms meter	1

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

if Switch one is closed the current will flow through it, but it will not flow through Switch two.

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

if both switches are closed, the current will flow through both switches and will power the circuit.