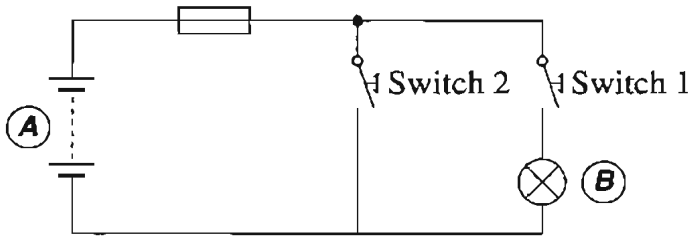
2009 HIGHER SCHOOL CERTIFICATE EXAMINATION

Electrotechnology

Section II (continued)

Question 19 (7 marks)

An electrical circuit is shown.



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

		Component	
(i)	(A)	Power Supply	1
(ii)	(B)	Globe	1

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

If switch one is closed the globe (called B) will light up as the circuit is complete.

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

If switch 2 is closed the globe will go out because the switches are in parallel making the globe function regardless as long as they are turned opposite.