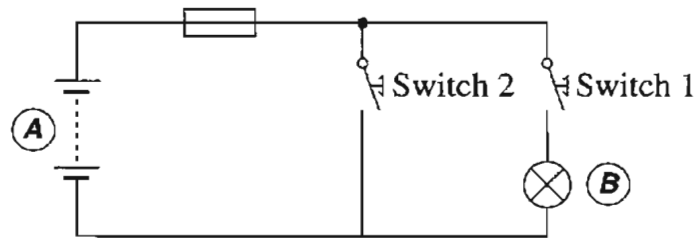


2009 HIGHER SCHOOL CERTIFICATE EXAMINATION  
**Electrotechnology**

Section II (continued)

**Question 19** (7 marks)

An electrical circuit is shown.



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

		Component	
(i)	<b>A</b>	Battery	1
(ii)	<b>B</b>	Light.	1

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

current will travel through the resistor back to the battery. The light will ~~turn on~~ ~~off~~ as current follows the quickest path home and this is through light.

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

The current will ~~the~~ travel through the resistor through both switches and back to the battery. the light however will become slightly dull as the majority of the current is trying to go through switch two.