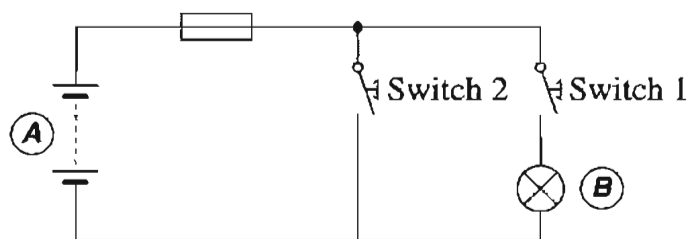


2009 HIGHER SCHOOL CERTIFICATE EXAMINATION
Electrotechnology

Section II (continued)

Question 19 (7 marks)

An electrical circuit is shown.



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

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

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

There will be a closed circuit and the lamp will turn on.

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

Current will take the path with least resistance. The light will be very dim as it's path is the higher resistance path.