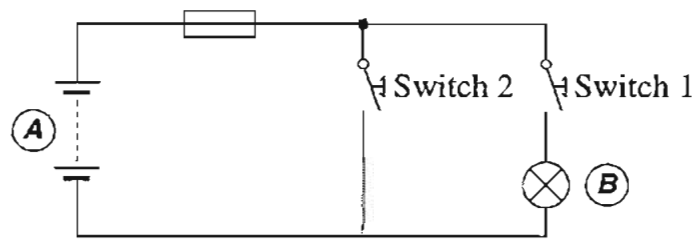


2009 HIGHER SCHOOL CERTIFICATE EXAMINATION
Electrotechnology

Section II (continued)

Question 19 (7 marks)

An electrical circuit is shown.



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

	Component	
(i)	(A) Power source, battery	1
(ii)	(B) laminaire, light	1

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

The circuit will work, and the light will light up

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

The circuit would have a dead short, the resistance would decrease, and the current would increase. This would cause the fuse shown in the diagram to blow, protecting the circuit from damage.