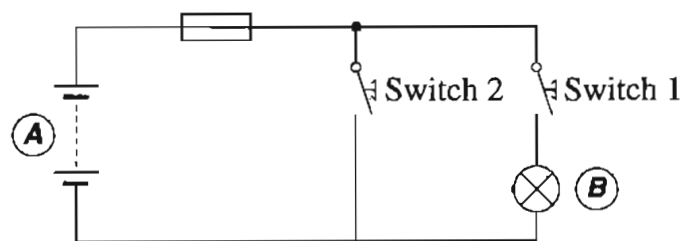


2009 HIGHER SCHOOL CERTIFICATE EXAMINATION
Electrotechnology

Section II (continued)

Question 19 (7 marks)

An electrical circuit is shown.



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

		Component	
(i)	(A)	battery / multiple cells	1
(ii)	(B)	lamp / light	1

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

the lamp will light up when switch 1 is closed if it is within tolerance of the fuse.

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

the lamp will go out because of the short circuit at switch 2 through switch 1 after that the fuse should blow, resulting in an open circuit.