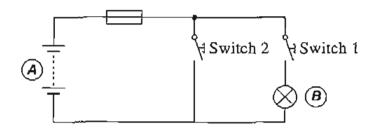
## 2009 HIGHER SCHOOL CERTIFICATE EXAMINATION Electrotechnology

Section II (continued)

Question 19 (7 marks)

An electrical circuit is shown.



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

(b) Describe what will happen if Switch 1 is closed. 2 The light alobe (figure B) will have invest running through it as the series writ is no sed (Advie) meaning the light will form on. the present sharps the same honever vallage charges after He light

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

3

The series circuit is then a farralel circuit. The unent will split up one each arm of the want ausing less to flow through the haht resulting in it diring Vellage will stay the Same however whent changes, through early UM.