## 2009 HIGHER SCHOOL CERTIFICATE EXAMINATION Automotive

## Section II (continued)

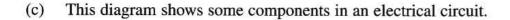
## Question 19 (7 marks)

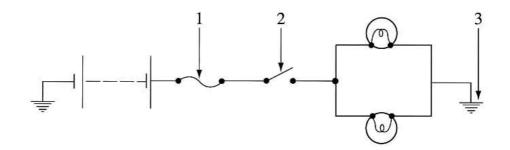
(b)

(a) Why is it recommended that the earth lead be removed first and replaced last 1 when disconnecting or connecting an automotive battery?

earth it is reconne 14 he remain and replace first 50 the power does not arc. inte producing explosidele gosos Bufferys are explosive chemicals the What does CCA refer to in an automotive battery? 1 Crankin Amps. 

Question 19 continues on page 14

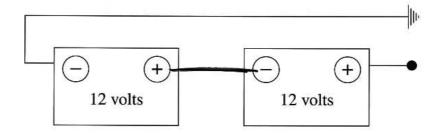




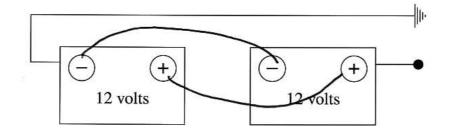
Complete the table naming and describing the function of each numbered component.

Component	Name	Function	
1	-luse	Bestrap if curcut unlar to gra	erter
2	Switch	turn disbes on or off	10 g
3	earth	complete the circuit	

(d) In the diagram below, draw lines to show how to connect the terminals to 1 increase battery output voltage to 24 volts.



(e) In the diagram below, draw lines to show how to connect the terminals to 1 maintain battery output voltage at 12 volts.



## **End of Question 19**

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