

Automotive

Section II (continued)

Question 19 (7 marks)

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

.....to stop the battery discharging through
.....you.....
.....
.....

- (b) What does CCA refer to in an automotive battery?

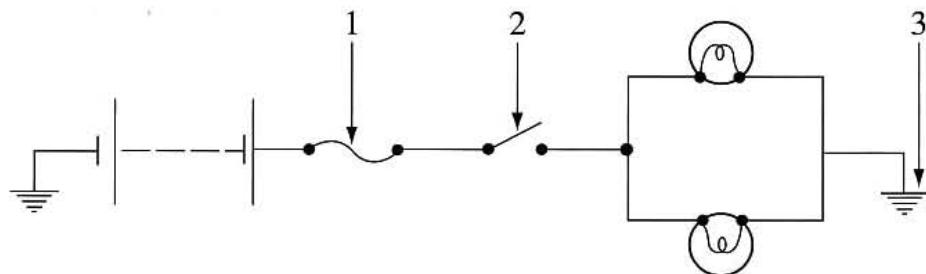
.....cold cranking Amps.....
.....

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Question 19 (continued)

- (c) This diagram shows some components in an electrical circuit.

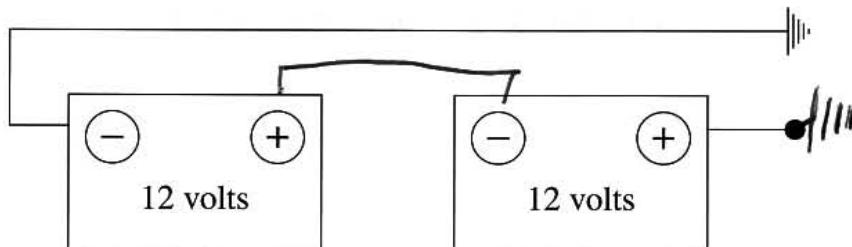
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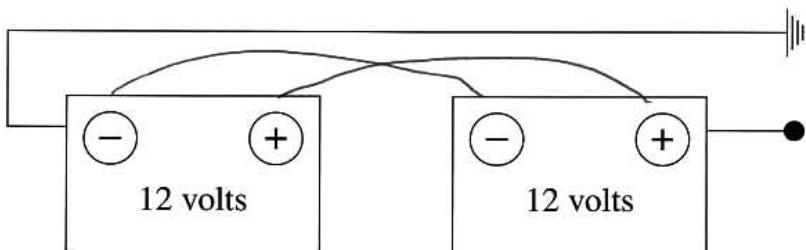
Complete the table naming and describing the function of each numbered component.

Component	Name	Function
1	Fuse	protects the circuit
2	Switch	turn the circuit on or off
3	Battery	Earth to complete the circuit

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



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



End of Question 19