

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? 1

..... To stop a circuit ~~to~~ forming between
..... your person and the battery which
..... can result in electrocution.
.....

- (b) What does CCA refer to in an automotive battery? 1

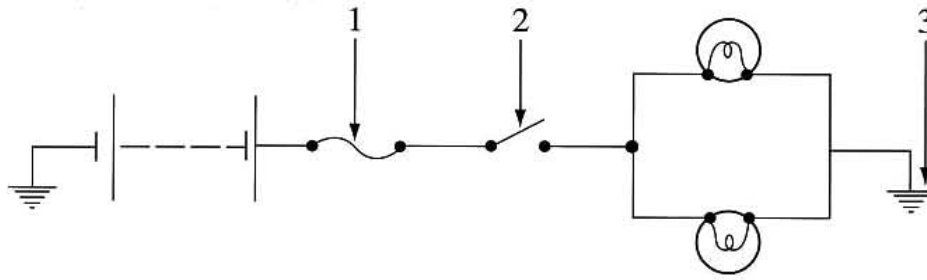
.....
.....

Question 19 continues on page 14

Question 19 (continued)

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

3

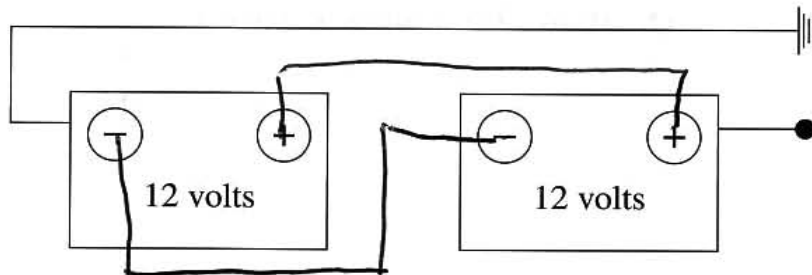


Complete the table naming and describing the function of each numbered component.

Component	Name	Function
1	resistor	creates resistants to slow down current flow.
2	switch	turns the circuit on an off by stopping power flow
3	Ground.	Earths the circuit.

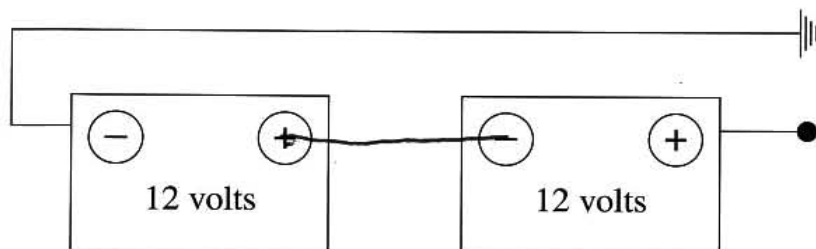
(d) In the diagram below, draw lines to show how to connect the terminals to increase battery output voltage to 24 volts.

1



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

1



End of Question 19