

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

for safety reasons, so you don't get a shock, so you don't damage the battery, & cause it the proper way to do it.

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

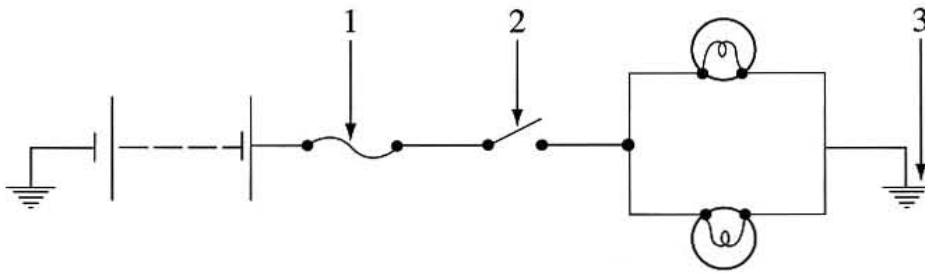
Cold Cranking Amps.

Question 19 continues on page 14

Question 19 (continued)

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

3

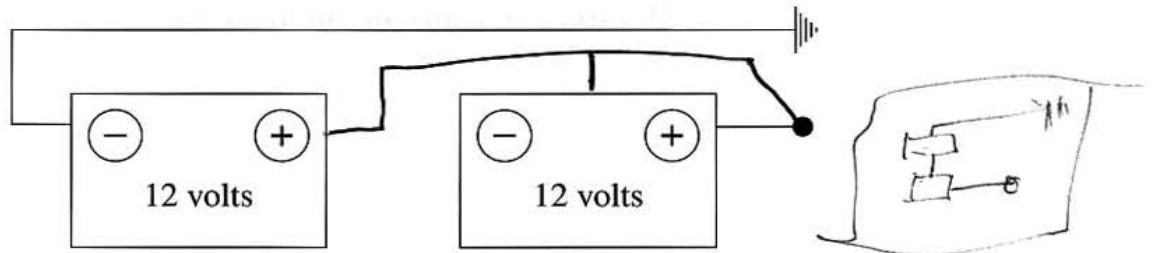


Complete the table naming and describing the function of each numbered component.

Component	Name	Function
1	fuse	protects against excessive current.
2	switch	Turn on & off
3	Earthed	connecting or completing the circuit

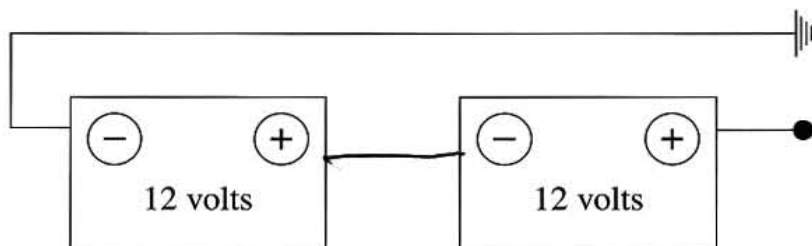
(d) In the diagram below, draw lines to show how to connect the terminals to increase battery output voltage to 24 volts.

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