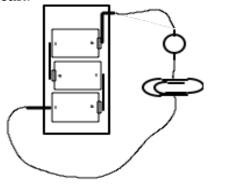
Unit 11 Exercise 1

Onn	I II LACICISC I
	1. In the following circuit, which bulb lights first?
	 A) Bulb A B) Bulb B C) Bulb C D) They all light at the same time E) A and C light first, B lights after them.
For each loop, state which of the	Study the three loops shown below. ne bulbs will light when the connections are made.
B 2 A) bulb A B) bulb B	3
B) bulb B C) both bulbs D) neither bulb	A) bulb A B) bulb B C) both bulbs D) neither bulb
	5. Using a colored pencil, go back and trace the continuous conducting paths in numbers 1 – 4. A) bulb A B) bulb B C) both bulbs D) neither bulb

6. Study the two circuits below in which a paper clip has been inserted between wires in a circuit.



Circuit A

Circuit B

Which of the following statements are true?

- (A) The bulb will light more brightly in Circuit A.
- (B) The bulb will light more brightly in Circuit B
- (C) The bulb will be the same brightness in either case.
- (D) The bulb will not light.
- 7. Explain why you believe your answer to the above question is correct. Use the words "insulator" and "conductor" correctly as part of your explanation.
- 8. Write in your own words a definition of the word <u>circuit</u> which anyone could use to determine if a given set of connections is or is not a circuit.
- 9. We have observed in several activities that as soon as a very small gap is produced anywhere in the circuit, the bulbs go out. Would you classify air as a conductor or an insulator? Explain.