SNC 1PI **Electricity Practice Exam**

1. State the three parts of the Law of Electric Charge

opposite charges attract like charger reper charge objects a trace neutral

2. Explain the three ways to charge an object.

friction

in duction

3. Draw a circuit diagram that has four 1.5 volt cells connected in series. There are two light bulbs, each connected in parallel. State the voltage at the battery and at each light.



voltage at light bulbs the pre 4 cells as the

NAME:

4. Draw a circuit diagram that has a 3 cell battery in series with 1 light bulb in series and two light bulbs in parallel. What is the voltage at the battery and each light bulb?



5. The current in a circuit is 2.4 A. What is the resistance if the voltage is 120 V?



6. An electric toaster is connected to a 120 V outlet in the kitchen. If the heating element in the toaster has a resistance of 14Ω , calculate the current flowing through it. (5 marks)



the cerrent is 8.6 A.

- 7. Using the Law of Electric Charges, state what will happen in each of the following situations.
- a) positive approaches a negative a thract
- b) positive approaches a neutral

attract

repel

c) positive approaches a positive