SNC 1DI Electricity Practice Exam

1.	State the three parts of the Law of Electric Charge
2.	Explain the three ways to charge an object.
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.

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	Calculate the efficiency of an electric motor that produces 25000 J of useful energy while using
υ.	an input energy of 32500 J.