\*\*Multiple Choice Questions (MCQs):\*\*  
  
1. What is the SI unit of electric current?  
 a) Volt  
 b) Ampere  
 c) Ohm  
 d) Watt  
  
2. Which of the following is a good conductor of electricity?  
 a) Wood  
 b) Plastic  
 c) Copper  
 d) Rubber  
  
3. The resistance of a conductor depends on:  
 a) Length of the conductor  
 b) Cross-sectional area  
 c) Material of the conductor  
 d) All of the above  
  
4. What is the device used to measure electric current called?  
 a) Voltmeter  
 b) Ammeter  
 c) Galvanometer  
 d) Ohmmeter  
  
5. Which physical quantity is measured in Coulombs?  
 a) Electric current  
 b) Electric charge  
 c) Electric potential  
 d) Electric resistance  
  
\*\*Fill in the Blanks:\*\*  
  
1. The reciprocal of resistance is known as \_\_\_\_\_\_.  
2. The instrument used to measure potential difference is called a \_\_\_\_\_\_.  
3. Ohm’s Law is represented by the equation \_\_\_\_\_\_.  
4. The flow of electric charge is termed as \_\_\_\_\_\_.  
5. \_\_\_\_\_\_ is the rate at which electrical energy is converted to another form of energy.  
  
\*\*True/False:\*\*  
  
1. An electric circuit with zero resistance is called a short circuit. (True/False)  
2. The unit of electrical power is Joule. (True/False)  
3. In a series circuit, the current is the same through all components. (True/False)  
4. A voltmeter is connected in series with the circuit. (True/False)  
5. Copper has a higher resistivity than rubber. (True/False)  
  
\*\*One-word Questions:\*\*  
  
1. What is the unit of electric power?  
2. Name the law that states V = IR.  
3. What is the opposition to the flow of current called?  
4. Name the instrument used to measure resistance.  
5. What do we call a material that does not conduct electricity?  
  
\*\*Short Answer Questions:\*\*  
  
1. Define electric potential difference.  
2. What is meant by electric resistance?  
3. Explain the significance of Ohm's Law.  
4. Describe the relationship between voltage, current, and resistance in a circuit.  
5. What factors affect the resistance of a conductor?  
  
\*\*Long Answer Questions:\*\*  
  
1. Explain the concept of electric current and its unit of measurement.  
2. Discuss the series and parallel combinations of resistors with diagrams.  
3. Describe the construction and working of an electric cell.  
4. Explain the heating effect of electric current and its applications.  
5. What is the principle of a simple electric circuit? Explain with a diagram.