

Physics Syllabus for MT on 05/7/2010

Chapter 12 : Electricity Pg 199 - Pg 209.

Physics Assignment

- Q1. Which device is used to measure the current flowing through a circuit? How is it connected in the circuit?
- Q2. How much energy is given to each coulomb of charge passing through a 6V battery?
- Q3. State Ohm's law. Write a mathematical equation describing this law. What is the shape of V-I graph of Ohm's law? (Draw it)
- Q4. Calculate the electrical resistivity of a metal wire of 1m length, 0.4mm diameter and having resistance of 2.2.
- Q5. Draw a schematic diagram of a circuit consisting of a battery of two cells of 2V each, a 20Ω resistor and a plug key, all connected in series. Also put an ammeter to measure the current through the resistor and a voltmeter to measure the voltage across the resistor. What would be readings in the ammeter and the voltmeter?