

## NCATT AET TEST STUDY GUIDE PRACTICE QUESTIONS WITH UPDATED ANSWERS

What part of an atom is associated with the flow of electricity? - **Answer-Electrons**

What in electrons in a conductor determines whether its flow is poor or good? - **Answer-Whether or not there contain free electrons in the orbit of atoms**

Define Static Electricity. - **Answer-a difference of electrical charge between two non-conductive surfaces**

What term is used to express the flow of electricity? - **Answer-Amperes is the amount of current flowing in a circuit**

What is a coulomb? - **Answer-a basic unit of electrical quantity equal to  $6.28 \times 10^{18}$  or 6.28 billion billion electrons**

What is the basic unit of electrical pressure? What other names could it go by? - **Answer-Electron Motive Force (EMF) or Volts**

If voltage and resistance are known, describe how total current can be determined. Show the equation. - **Answer-To determine the current in a circuit, the voltage is divided by the resistance. I=V/R**

What device other than an actual battery can be used to store energy? - **Answer-Capacitor**

Describe the left hand rule as it pertains to electrical generation. - **Answer-This describes the flow of current in a conductor when passed through magnetic lines of flux. Thumb represents motion of conductor, index finger represents line of flux of magnetic field, middle finger is resultant current flow.**

What trait would allow magnetic lines of flux to flow easily? - **Answer-the permeability of the material that the lines of flux flow through**

Describe the name of a common electrical point that allows circuits to have a return path to power. - **Answer-Ground or chassis ground**

What is the result of passing too much current (amps) in a small gauge wire? - **Answer-a larger amount of resistance will slow the rate of current flow**

Describe the relationship of voltage, current, and resistance described in Ohms law. - **Answer-the electrical pressure of 1 volt is equal to the flow of 1 amp of current times the resistance of 1 ohm**

# Ncatt Test Study Guide

**Bruce Bessette**

## Ncatt Test Study Guide:

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