

Electronics Final Exam Study Guide

Note: this exam will have two parts, a multiple choice/true-false section. and, a free response section.

We discussed fuses; you should know what they do and some specific applications.

We spent time building circuits; you should know what components we used, what they do and how they work. If you did and understood your labs you should be able to answer these questions.

The structure of an atom.

We learned about transformers, what types of current do they run on and why are primary and secondary terms important.

Using a multi-meter

Magnetism, what elements can be magnetized, basic characteristics of magnets and magnetism, types of magnets, and magnetic induction.

Motors, how they work and be able to identify their components.

Identify basic types of motors and their applications.

Magnetic applications, switches, relays etc.

Cells and batteries, what is the difference between the two, how do you determine voltage and amperage with them and primary versus secondary cells.

Switches; identify different types and their uses.

Understand the soldering process.

Understand conductors and insulators.

Be able to work with ohms law and solve circuit problems. Understand the fundamentals of electricity and how they interact. Make sure to understand how volts, amps, resistance, and watts behave in electronic circuits.

Wires sizes and measurements.

Be able to color code resistors (like the worksheet).