ZoNi7567's Shock Value Test Key

Fill in the Blank

- 1. Alternating Current(AC)
- 2. Circuit Breaker
- 3. Piezoelectricity
- 4. Permeability
- 5. Conventional
- 6. Reciprocals
- 7. Diamagnetic
- 8. Electrode
- 9. Transformer
- 10. Direct Current(DC)
- 11. Network
- 12.a. Tungsten b.Plasma
- 13. Proton
- 14. Electrolyte
- 15.a. Voltage
 - b.Time
- 16. Low Flow Switch
- 17. Equivalent
- 18. Metal Oxide Semiconductor(Silicon, I've seen it both ways) Field Effect Transistor
- 19. Turbine
- 20. Rotor
- 21. Electric Arc (Arc)
- 22. Resistor
- 23. Stator

True/False

- 1. False
- 2. True
- 3. False
- 4. False
- 5. True
- 6. False
- 7. False
- 8. True
- 9. False
- 10.True

Magnetism

- 1. Ň --> S
- 2. Left --> Right
- 1. South

- 2. Rub with magnet, place in coil with current, to magnetize, to demagnetize, heat beyond Curie point, or hit out of alignment
- 3. A core is placed in a solenoid
- 4. Iron, Nickel, Cobalt, Chromium Dioxide, NArWHAI is Paramagnetic(Aluminum)
- 5. No, net magnetization
- 6. Magnets
- 7. In normal copper wires, there is no current passing through it, the current magnetizes the wire
- 8. Voltage supplied, # of winds of wire, mass of core, gauge of wire
- 9. Turned off/on, electrons flow through the wire, turning the core into a magnet

10. Yes, yes, Sensors for traffic lights

Schematic Drawings And Symbols

PM for yes/no answers, as it is extremely difficult to create schematic drawings on my computer.

Symbols are online

Calculations

- 1. 556 & 223 in series in parallel with 243 & 919 in series
- 2. 223 & 556 & 243 in series in parallel with 919
- 3. 223 & 243 in series in parallel with 556 & 919 in series
- 4. 2028.1
- a. 566.4 kWh
- b. 65.56 watts
- c. 13.5 cents
- d. .55 Amps
- e. 219.7Ω

Chart where W=watts, V=volts, I=current, and R=resistance W=VI=V^2/R=I^2*R V=IR=(WR)^.5=W/I I=V/R=W/V=(P/R)^.5 R=V/I=V^2/W=W/I^2 Conceptual questions

1. current

2. not completing circuit

3. ceramic insulates

4. stick stuff to fridge, find random pieces of metal, motors, etc.

- 5. latin for iron
- 6. motor: electric->kinetic, generator: kinetic->electric, battery: chemical->electric
- 7. wet cell, dry cell
- 8. positive and negative directly touch, low resistance=higher current
- 9. Primary->not rechargeable, Secondary->rechargeable
- 10.spins the other way
- 11.nothing
- 12.zinc copper electrodes
- 13.CFL releases more heat than incandescant
- 14.tungsten
- 15.glowing with intense heat
- 16.designed to break at a certain amp, melts
- 17.multiple paths, one path
- 18.parallel
- 19.8.99x10^9