

Ag Power and Equipment Technician

Electrical/Electronic Class

Name _____

Basic Facts and Laws Date

Competency:

Directions:

1. Conventional Flow theory states that flow of electrons is from _____ to _____. (Accepted in the transportation industry)
2. Electron Flow theory states that the flow of electrons is from _____ to _____. (Accepted in the electronics industry)
3. Magnetic lines have direction and change direction when the _____ changes in the wire from one direction to another.
4. There are five parts to the basic circuit, the power source, a protection device, a control (switch), a load, and the _____.
5. The Hall Effect switch emits a _____ from the presence or absence of a magnetic field contacting a semiconductor material.
6. Voltage is the force that causes _____ to flow through an electrical conductor.
7. Elements with exactly _____ electrons are semi-conductors.
8. Voltage is often referred to as the _____ or force and is measured in volts.
9. The speed of light is _____ billion miles per hour.
10. Current (amperes) is the flow of _____ through a conductor.
11. Series circuits have _____ circuit resistance, more than one load, and one path for current flow.
12. Parallel circuits have _____ circuit resistance, more than one load and more than one current path.

13. Series Parallel circuits have _____ than two loads; some loads are connected in series and some are connected in parallel.
14. Multimeters will display _____ digits.
15. Electric current creates its own _____ around the wire.
16. One ohm is the _____ that will allow one amp to flow when potential is one volt.
17. Multimeters use metric prefixes to _____ the number of digits to the maximum of four.

Instructors Initials: _____