CSEE 100 HW

Name: _____

Electronics Physics (REVIEW)

Date:_____

1.	The *atom* is the smallest particle of an *element*.	T	F
2.	The center of the atom is the *nucleus*.	T	F
3.	The nucleus contains *protons* and *neutrons*.	T	F
4.	*Electrons* orbit around the nucleus.	T	F
5.	The orbits are called *Electron shells.*	T	F
6.	The 4th shell is called the *valence shell*.	T	F
7.	*Electrons* are negatively charges particles.	T	F
8.	The *atomic weight* of an electrically neutral *atom* equals the number of *protons*.	T	F
9.	Electrons in the 4th shell are called *valence electrons*.	T	F
10.	The number of *protons* in the *nucleus* of an electrically neutral atom constitutes its *atomic number*.	T	F
11.	*Protons* are positively charged particles.	T	F
12.	The number of electrons in the nucleus of an electrically neutral atom equals the number of protons for a given atom.	T	F
13.	Electrons orbiting in shell 1 are held more tightly to the nucleus than electrons orbiting in shell 4.	T	F
14.	Valence electrons are held more loosely and can be easier to dislodge from the atom.	T	F
15.	Electrons can't jump from one shell to another of the same atom.	T	F
16.	When electrons *jump* from one shell to another, they gain energy.	T	F
17.	When electrons *fall* from one shell to another, they lose energy.	T	F
18.	An electrically charged atom is called an *ion*.	T	F
19.	An atom becomes electrically charged when it has more or fewer electrons than protons.	T	F
20.	Atoms can't share electrons.	T	F
21.	Atoms from the same element sharing electrons are called *ionized* atoms.	T	F
22.	Atoms from the different elements sharing electrons are called *compound.*	T	F
23.	When atoms of elements join in groups of 2 or more, they are called *molecules.*	T	F
24.	A *conductor* allows electrons to move around with greater ease.	T	F
25.	An *insulator* allows electrons to move around with lesser ease	T	F
26.	A *resistor* controls how easy electrons move around.	T	F
27.	A *semiconductor* allows electrons to move around easily in some conditions and harder in other conditions.	T	F