CH 151 Sample Quiz #2a Name: _____

Be sure to show all work, use the correct number of significant figures, circle final answers and use correct units in all problems.

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1. Match the term on the left with the correct phrase on the right (7 points)

A. Isotope	__	Smallest subatomic particle; negative charge
B. Atomic Number	__	Same atomic number, different mass number
C. Neutron	__	Positive subatomic particle
D. Mass Number	__	Same mass number, different atomic number
E. Proton	__	Largest subatomic particle
F. Electron	__	Number of protons
G. Isobar	__	Number of protons and neutrons

2. Calculate the atomic number and mass number for an atom with 30 protons, 34 neutrons and 28 electrons. What element is it? What is the atom's symbol? Give the symbol for this isotope in the form ${}^{A}_{Z}X$. (5 points)

3. Classify each of the statements below as being True (**T**) or false (**F**). (1 point each, 8 points total)

An elemental symbol contains a capital letter followed by a small letter __

The properties of elements are always different from the properties of the compounds they formed __

Two objects, both having a negative charge, attract each other __

Two atoms of silicon each with a different number of electrons will always have the same mass number __

The mass number for each isotope of an element will be different __

Protons and electrons act like a type of "glue" that holds the atom together __

Democritus determined that most of the atom was empty __

An isotope of neptunium with 93 neutrons is written as neptunium-93 __