A. True or False [T or F](1-21)

CHEMISTRY PERIODIC TABLE WORKSHEET II

Periodic Table Questions [Place your answer in the blank to the left of the question number.]

a) True b) False
1. Properties of the elements are periodic functions of their atomic numbers.
2. There are more nonmetallic elements than metallic elements.
3. Metallic properties of the elements increase from left to right across a period.
4. Metallic properties of the elements increase from top to bottom in a family of elements.
5. Calcium is a member of the alkaline earth family.
6. Iron belongs to the alkali metal family.
7. Bromine belongs to the halogen family.
8. Neon is a noble gas.
9. Group A elements do not contain partially filled "d" or "f" orbitals.
10. An atom of oxygen has a larger volume than an atom of lithium.
11. An atom of sulfur is larger than an atom of oxygen.
12. An atom of aluminum (Group 13) has five (5) electrons in its outer shell.
13. Uranium is a transition element.
$_{}$ 14. The element with the ECN $1s^22s^22p^5$ belongs to Group 15.
$_$ _15. The element with the ECN $1s^22s^22p^63s^23p^1$ belongs to Group 13.
16. A chemical family consists of one of the horizontal rows on the periodic table.
17. Elements within a family will have similar electron structures and will show some similarities in their chemical properties.
18. Group A elements are known as the representative elements.
19. Going from left to right in any period, the representative elements show an increasing number of s and pelectrons.
20. The potassium ion is smaller than the potassium atom.
21. The bromide ion is smaller than the bromine atom.