Midte	rm 1	- Fall 2011 - Chemistry 1501 Chemistry for Engineering
True/F Indicat		ether the statement is true or false.
	1.	Elements in a periodic family tend to react in similar fashion.
	2.	Cations are particles with fewer electrons than protons.
	3.	This reaction: $C_7H_{16}$ + 11 $O_2 \rightarrow 7$ $CO_2$ + 8 $H_2O$ represents the complete combustion of heptane.
<del></del>	4.	A limiting reactant is completely consumed in the course of a reaction and may be used to determine how much product(s) may be produced.
47.00	5.	Sodium nitrate is a strong electrolyte.
	6.	A horizontal row of elements on the periodic table is referred to as a family.
	7.	The nucleus is comprised of the atom's neutrons and protons.
	8.	There are 12 oxygen atoms in four molecules of dinitrogen tetraoxide.
Multip Identif		choice that best completes the statement or answers the question.  The correct molecular formula of tin(IV) oxide is:  a. TiO <sub>2</sub> b. SnO <sub>2</sub> c. SnO <sub>4</sub> d. TiO <sub>4</sub>
	10.	Given that: NaClO( $aq$ ) + HBr( $aq$ ) $\rightarrow$ NaBr( $aq$ ) + HClO( $aq$ ), how many mL of 3.0 M HBr is required to neutralize 50.0 mL of 2.5 M NaClO?  a. 42 mL  b. 75 mL  c. 63 mL  d. 60 mL
	11.	The correct molecular formula for iron(II) bromide is: a, FeBr $_3$ b. FeBr $_2$ c. I $_2$ Br $_2$ d. IBr $_3$
	12.	Which isotope contains 16 protons?  a. $^{16}O$ b. $^{19}F$ c. $^{35}S$ d. $^{32}P$

ID: B

Name: \_\_\_\_\_ Date: \_\_\_\_\_