Gen Chem II (CHM 202) Fall 18 Dr. Hahn MWF 10 am Quiz I form A 8/27M Exam #
Name Name NW = No WOVK  Sign NA = bad attent NH = hat attempted  Print NH = hat attempted
Please snow work on all questions for full credit & partial credit. (20 total pts) confidence booster
1. 1 kilometer means 1000 meters (3 pts) while down 1000 - 2
2. Significant Figures: Show work for determining correct number of significant figures in the following calculations. (2 pts)
2. Significant Figures: Show work for determining correct number of significant figures in the following calculations. (2 pts)  7.9 + 100.287 + 2.11 = to correct sig fig  Convert from 89.2 centi grams to pounds (453.5 g = 1 lb) Show work. (3pts)
3. Convert from 89.2 centi grams to pounds (453.5 g = 1 lb) Show work. (3pts) $89.2 \times 9 \times 10000 \times 100000 \times 1000000 \times 1000000 \times 1000000 \times 10000000 \times 100000000$
4. (a) Give the name of the element N (2 pts) Nitivogen
(b) Give the symbol for the element <u>silicon</u> (2 pts)
4. For the element <u>F</u> (flourine) answer the following (1 pts each blank, 6 pts total)  a) How many protons b) How many electrons for the neutral atom
c) Give the symbol in the format ${}^{A}X$ for the same element ${}^{Q}$ (1/2 pt)
d) What group is the element in
f) What is the likely charge on the element $(1/2 \text{ pts})$ Explain or show work. $(1/2 \text{ pts})$ g) Is the element a [(metal) or (nonmetal)] $(1/2 \text{ pt})$
g) Is the element a [(metal) or (nonmetal)] (1/2 pt)
5. Give the formula for the ionic compound made from the following elements (2 pts) (show work) $42  9P. 5A - 5 - 8 = -3$ Mg and N $3P. 5A - 5 - 8 = -3$ $3P. 5A - 5 - 8 = -3$
Extra Credit Question (Avogadro's number = 6.022 x 10 <sup>23</sup> ) (4 pts) Show work.
If you have 79.2 grams of the element $\underline{\mathbf{Fe}}$ (iron), how many atoms of $\underline{\mathbf{Fe}}$ do you have?
55,85g Fe = 1 mol Fe = 6,022×10 atoms Fe
55,85g Fe = 1 mol Fe = 6,022×10 <sup>23</sup> atoms Fe 19,2 g Fe × 1 mol Fe × 6,022×10 <sup>23</sup> atom Fe)
(8.54 × 10° atoms (E)

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a) Hov	w many protons b) How	w many electrons for the neutral atom	
c) Giv	we the symbol in the format ${}^{A}_{z}X$ f	For the same element (1/2 pt)	
4)			
d) Wha	at group is the element in e) W	Vhat period is the element in	
f) Wha	at is the likely charge on the element _	(1/2 pts) Explain or show work. (1/2 pts)	
a) Ie th	ne element a [(metal) or (nonmetal)] (1.	(2 nt)	
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Mg	and N		
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