Introduction	on to General Chemistry CHM 1025C
Chapter T	est-2, Ch 6, 7
NOTE:	Failure to Follow Directions
	Failure put the Units in
	Failure to properly round

Instructor: Mr. George W.J. Kenney, Jr <u>13-Mar-2008 WEST, 1330, Room 2-213</u> Failure to show all equations Failure to show all math work, *= POINTS OFF*

PRINT YOUR NAME ON THE LINE: (1 pt ea) You

Your start time on this test	
Your finish time on this test:	
Time it took you to do this test:	
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A. FILL IN THE BLANKS – 2.5 POINTS EACH BLANK.

1. Ch 6-1 How do we know when a chemical reaction is taking place? Give an example of how each of the 5 senses might be used to detect when a chemical reaction has taken place:

1. Sight	
2. Hearing	
3. Taste	
4. Touch	
5. Smell	
6. Ch 6-7 For the ge	eneral chemical equation $A + B \rightarrow C + D$, define the following:
6. Reactants	
7. Products	

8. Ch 7-3. What do we mean by a precipitation reaction?

9. Ch 7-4. When two solutions of ionic substances are mixed and a precipitate forms, what is the net charge of the precipitate?

10. Ch 7-12. Based on the general solubility rules, predict which of the compounds below will NOT be soluble in water:

10. Lead (II) Sulfide	
11. Iron (III) Hydroxide	
12. Potassium Fluoride	
13. Magnesium Sulfate	
14. Iron (II) Sulfide	
15. Potassium Carbonate	
16. Calcium Carbonate	

17. Ch 7-54. Identify each of the following unbalanced reactions as belonging to one or more of the following categories: PRECIPATION ACID-BASE REDOX

17. $H_2O_2 \rightarrow H_2O + O_2$ 18. $H_2SO_4 + Zn \rightarrow ZnSO_4 + H_2$ 19. $H_2SO_4 + NaOH \rightarrow Na_2SO_4 + H_2O$ 20. $H_2SO_4 + Ba(OH)_2 \rightarrow BaSO_4 + H_2O$ 21. $AgNO_3 + CuCl_2 \rightarrow Cu(NO_3)_2 + AgCl$

B. EQUATIONS 5 POINTS EACH

1. Ch 6-20. Many over-the-counter antacid tablets are now formulated using calcium carbonate as the active ingredient, which enables such tablets to also be used as dietary calcium supplements. As an antacid for gastric hyperacidity, calcium carbonate reacts by combining with hydrochloric acid producing the "BURP". <u>Write the Unbalanced Equation</u>

2. Ch 6-24. Hydrogen Sulfide gas is responsible for the odor of rotten eggs. It also burns in air, producing sulfur dioxide and water. <u>Write the Unbalanced Equation</u> for this burning:

3. Ch 6-40. Balance each of the following chemical reactions:

3.	Na ₂ SO ₄	+	CaCl ₂	\rightarrow	CaSO ₄	+	NaCl
4.	Fe	+	H ₂ O	\rightarrow	Fe ₃ O ₄	+	H_2

5.	Br	+	SO_2	+	H ₂ O	\rightarrow	HBr	+	H_2SO_4
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6. Ch 6-67. When a strip of Magnesium is heated in Oxygen, it burns with a white flame and produces a finely powdered dust of magnesium oxide. <u>Write the Unbalanced Equation</u>

7. Ch 7-18. Write the <u>balanced molecular equation</u> and underline any precipitate that forms. If no precipitate forms, so indicate it:

7. Sodium sulfide and copper (II) chloride

8. Potassium phosphate and aluminum chloride:

9. Ch 7 -26 Calcium nitrate and sulfuric acid

10. Ch 7-42. Give a complete example of a simple chemical reaction that involves the transfer of electrons from a metallic element to a nonmetallic element.

Quest Pts	Ea Tot Pt	s # Right	Total Pts					
2.5	52.5							
5	50							
How do you rate this test from 1 to 10								
1 = Very East, can do it with my eyes closed								
10= Very Very Difficult, could not do any of the problems								
	2.5 5 vith my eyes c	2.5 52.5 5 50	2.5 52.5 5 50					

Chem 1025C