Instructor: Mr. George W.J. Kenney, Jr 22-Oct-2007

YOUR NAME (	Please Print):	
1. (3pts, 1 pts ea)	Your start time on this test	
	Your finish time on this test:	
	Time it took you to do this test:	

## A. (5 pts each ) Perform the following Conversion

1. Convert 32 Deg K to Deg F:

2. Convert -123 Deg F to Deg K

## B. Elemental Knowledge – FILL IN THE BLANKS DO 25 OF THE 29

1 What is an Element

nosphere <u>NAME</u>	SYMBOL
11111111	<u>STIND OE</u>
A	<b>A.</b>
3	В
C	C
e and give the chemical symbols <u>NAME</u>	s for four abundant elements in the human body [ $> 1\%$ ] $\underline{SYMBOL}$
A	A
В	В
C	С
D	D
ne [ Name and Symbol ] the 2 or NAME	f the inert gases <u>SYMBOL</u>
A	A
3	В
Element is made of tiny particle	s called
ons have a	

7 Write the names of the components of an element in order of mass	
Largest Mass	<u> </u>
Smaller Mass	<u> </u>
Smallest Mass	_
8. Rutherford's experiment demonstrated that the atomic structure was not used a	that of plum pudding. He
particle and it had a	charge
9 The nucleus of an atom has a	charge
10. An atom with different number of neutrons is called	
11. The number of protons in the nucleus of an atom is also called it's	
12. The number of protons and neutrons in an atom is also called it's	
13. Different number of in the nucleus of an atom	result in various
of that atom	
14. A Sodium atom may contain 11 protons, 11 electrons and 12 neutrons. sodium atom:	Write out the symbol for this
15. The periodic table has atoms in order of	
16. Give another name for at least 4 of the columns in the periodic table	
A	
B D	

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17.	Vertical columns are also called:					
18.	Nonmetals are located where in the periodic table					
19.	What has a mixture of metallic and nonmetallic properties					
20.	Name and give the chemical symbols two diatomic molecules NAME SYMBOL					
	A					
	B					
21. Different forms of the same element such as Carbon that can exist as a diamond or graphite are called						
22. When we take an electron away from a neutral atom we form a						
23. Salt water conducts electricity, sugar in water does not. Why?						
24.	Energy is transferred by					
25.	25. Name the properties of electromagnetic radiation					

26.	Light travels through space as a stream of:
27.	What is the name of an atom is it's rest state, in it's high energy state
28.	The stairstep energy states show that the energy of an electon is
29.	The Pauli Exclusin Principle states that

## C. Multiple Choice

D. None of the above

## **DO** 5

1. A Chemical Formula shows	
A. How to make a compound	
B. The number of protons, neutrons and electrons in the compound	
C. The types and number of atoms in the substance	
D. The types and number of atoms in the element	
E. The types and number of atoms in the compound	
F. None of the above	
2. What determines chemical behavior?	
A. Electrons	
B. Protons	
C. Neutrons	
D. None of the above	
3. Binary Compounds contain:	
A. A Metal	
B. A Metal and a Non-Metal	
C. A Non-Metal	
D. None of the above	
4. The Roman society was believed to have failed partially due to:	
A. Poor leadership	
B. Drinking too much wine	
C. Eating too much sugar	
D. Accidentally ingesting lead	
E. None of the above	
5. To become a Cation, an element must:	
A. Get in a fight with a dog	
B. Loose an electron	
C. Gain an electron	
D. Gain a neutron	
E. None of the above	
6. To become an Anion, an element must:	
A. Loose an electron	
B. Gain an electron	
C. Loose a neutron	
D. None of the above	
7. When naming a binary ionic compound:	
A. The Anion is named first	
B. The Cation is named first	
C. The most complex part of the compound is named first	

D. Name the following Co	mpounds	
1. Sodium Chloride		
2. Al <sub>3</sub> S <sub>2</sub>		
3. Barium Sulfide		
4. CsF		
5. Magnesium Iodide		
6. FeCl <sub>3</sub>		
7. Copper (I) Chloride		
8. SnO <sub>2</sub>		
9. PbO		
10. BF <sub>3</sub>		
11. NO		
12. N <sub>2</sub> O <sub>2</sub>		
13. Sodium Sulfite		
14. KHSO <sub>4</sub>		
15. Potassium Phosphate		
16. KHCO <sub>3</sub>		
17. NH <sub>4</sub> ClO <sub>3</sub> Chem 1025C	7 of 8	

18.	NH <sub>4</sub> Cr <sub>2</sub> O <sub>7</sub>			
10	Culturio Asid			
19.	Sulfuric Acid			
20.	HF			
21.	Ntiric Acid			

Summary: Section A. Conversion	# of Quest	Pts Ea 5	# to do 2	Total Pts 10 %	
B. Fill in the Blanks	29	2	25	50 %	
C. Multiple Choice	7	2	5	10 %	
D. Naming Compounds	21	2	15	30 %	
Total				100 %	

10= Very Very Difficult, could not do any of the problems

<sup>7.</sup> How do you rate this test from 1 to 10

<sup>1 =</sup> Very East, can do it with my eyes closed