Chemistry 141 Name

Dr. Cary Willard

Quiz 2a (20 points) September 7, 2010

All work must be shown to receive credit.

1. (10 points) Fill in the table below with the correct IUPAC name or formula for the compounds.

|  |  |
| --- | --- |
| IUPAC name | Chemical Formula |
| Sodium phosphite |  |
| Manganese(III) telluride |  |
| Ammonium carbonate |  |
|  | Ca(ClO4)2 |
|  | N2Br5 |

1. (3 points)Give the number of protons, neutrons, and electrons in the following particles.
	1. $c^{+3}$

Protons Neutrons Electrons

* 1. A neutral atom of plutonium-261

Protons Neutrons Electrons

1. (3 points) Why do we describe some substances as being composed of formula units and others as being composed of molecules?
2. (4 points) Write and balance the chemical equation for the complete combustion of hexanediol, C6H14O2.

Chemistry 141 Name

Dr. Cary Willard

Quiz 2b (20 points) September 7, 2010

All work must be shown to receive credit.

1. (10 points) Fill in the table below with the correct IUPAC name or formula for the compounds.

|  |  |
| --- | --- |
| IUPAC name | Chemical Formula |
| Potassium sulfite |  |
| Molybdenum(II) arsenide |  |
| Magnesium acetate |  |
|  | Ba(IO)2 |
|  | S2O3 |

1. (3 points)Give the number of protons, neutrons, and electrons in the following particles.
	1. $a^{+3}$

Protons Neutrons Electrons

* 1. A neutral atom of radium-237

Protons Neutrons Electrons

1. (3 points) Why do we describe some substances as being composed of formula units and others as being composed of molecules?
2. (4 points) Write and balance the chemical equation for the complete combustion of octanediol, C8H18O2.