Chemistry 115 Dr. Cary Willard Quiz 4A (20 points) Name_____

March 5, 2009

All work must be shown to receive credit. Avogadro's number 6.022×10^{23} /mol

1. (4 points) In what ways are isotopes alike?

In what ways are they different?

2. (4 points) Give the correct name or formula for the following compounds

IUPAC Name	Formula
Titanium(III) sulfate	
Aluminum hypobromite	
	Na ₃ PO ₃
	Cr(OH) ₂

- 3. (3 points) Calculate the number of moles of molybdenum that contain 3.54 x 10^{21} atoms of molybdenum
- 4. (3 points) Calculate the mass of 3.87 moles of platinum.
- 5. (3 points) Calculate the molar mass of sodium oxalate, $(Na_2C_2O_4)$
- 6. (3 points) Calculate the number of atoms of carbon in 3.50 mol of sodium oxalate.

Chemistry 115 Dr. Cary Willard Quiz 4B (20 points) Name_____

March 5, 2009

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1. (4 points) In what ways are isotopes alike?

In what ways are they different?

2. (4 points) Give the correct name or formula for the following compounds

IUPAC Name	Formula
Cobalt(III) sulfate	
Aluminum perbromate	
	K ₃ PO ₃
	Cu(OH) ₂

- 3. (3 points) Calculate the number of moles of molybdenum that contain 7.32 x 10^{21} atoms of molybdenum
- 4. (3 points) Calculate the mass of 4.64 moles of platinum.
- 5. (3 points) Calculate the molar mass of sodium oxalate, (Na₂C₂O₄)
- 6. (3 points) Calculate the number of atoms of carbon in 2.96 mol of sodium oxalate.