

CHM1032C
Test 2 Homework

- Know the names and symbols for the first 36 elements
- Memorize the 10 polyatomic ions discussed in class.
- Be able to draw the Lewis structures for the 10 polyatomic ions you were asked to memorize.

Chapter 3: 27, 29, 31, 33, 37, 39 abd, 41, 43, 45, 51, 53, 59, 61, 65-67, 69-77, 79-85, 93, 95, 97

Extra Problems:

1. What is the name of the compound with the chemical formula NH_4NO_3 ?
2. What is the name of the compound with the chemical formula CrO_3 ?
3. What is the chemical formula for copper(II) cyanide?

Chapter 4: 27, 31, 33, 35-42, 53-61, 67, 69, 70, 73, 75, 77, 79, 89

Extra Problems:

1. What is the chemical formula for phosphorous trichloride?
2. Lewis Structures: Please draw the Lewis structure for the polyatomic ion NO_3^- . *Please show all formal charges.*

What is the electron pair geometry about the central N? _____

What are the bond angles about the central N? _____

Chapter 11: 23, 25, 27, 29, 31, 35-39, 41, 45-49, 53, 58, 59, 83

Chapter 12: 33, 35, 37, 38, 43, 45, 47, 49, 51, 53, 57, 59

Extra Problem: Draw and name all of the isomers for C_7H_{16} .