

Review Test 2
CHM 1032C

*memorize the names and symbols of the first 36 elements.

1) Bonds

- COVALENT VS IONIC
- Ionic (charges on various atoms)
 - a) Polyatomic ions
 - *memorize the names, formulas and charges for the polyatomic ions*
 - b) Naming Ionic compounds

- Covalent bonds
 - a) naming binary covalent compounds
 - b) sharing electrons
 - c) Lewis Structures
 - Polyatomic ions (Be able to draw Lewis structures for all 10)
 - d) Formal Charges
 - e) Single double and triple bonds
 - f) Molecular Geometry/Shape
 - 1) Bond angles
 - 2) electron pair geometry
 - g) non polar vs. polar bonds
 - 1) electronegativity & Dipoles

2) Organic chemistry

- a) Writing organic structures
 - i) Be able to inter-convert line segment, condensed and complete structural formulas. Know how to find the molecular formula.
- b) Identify functional groups (No chart will be provided)
 - (1) carboxylic acids
 - (2) ketones
 - (3) aldehydes
 - (4) amines
 - (5) alcohols
 - (6) esters
 - (7) alkene, alkynes, aromatics
- ii) Naming hydrocarbons