

Chem 8 test Review December Exam

- (A) Lewis Formulas
- Draw correct structures
 - Identify hybridization
calculation of bonding units
 - Identify shape
 - Identify most polar bond
 - given formula, identify # unshared pairs e^-

- (B) Periodic Trends
- size
 - ionization energy (IE)
 - Electronegativity
 - given IE's, identify element

- (C) EF / MF
- Find EF given mass (g's), % mass, or moles.

- Given Mm, find MF given EF

- (D) Mass-mole-molecule
molecule-mole-mass
- be able to determine which element has more particles: 3g C or 3g N
 - all mass, mole, particle calcs

- (E) Balancing Equations
- Be able to balance
alkane Redox rxns
Propane thru octane

- (F) Theoretical yield and limiting reactant.
- Calc theo yield of a product in moles or mass
 - Calc % yield, actual yield, theo yield from % yield formula.
 - Identify limiting reactant.
 - Calc mass of other reactant used.
 - Calc mass remaining reactant