

SCH3UA (Period 1) Exam Outline

Exam Breakdown

Multiple Choice - 25 marks (**Knowledge**)

- Scientific Notation, Significant digits
- Isotopes, Relative Abundance
- Moles, Chemical Quantities
- Nomenclature
- Percent Composition
- Chemical Reactions, including redox
- Dilutions
- Limiting Reactants
- Strong / Weak Acids
- Lewis structure, electronegativity, octet rules
- Gas laws

Short Answer – 11 questions for a total of 60 marks (**Thinking**):

1. [5] Gases – Molar Volume
2. [6] Intermolecular Forces
3. [13] Chemical Reactions (ionic equations), limiting reactant, percentage yield
4. [6] Redox Reaction
5. [4] Chemical Reactions
6. [9] Drawing 3-D VSEPR shapes, names, Polar / Nonpolar molecule
7. [5] Molecular / Empirical Formula
8. [3] Concentration
9. [3] Formal Charges
10. [3] Electron Configuration, Quantum numbers
11. [3] Mass Spectrometry

Review Questions: These are suggested questions that will help **prepare** you for the exam. This doesn't mean these are the exam questions!

1. SCH3U Exam Review Package (posted online)
2. Oxidation Numbers: Zumdahl Chapter 4 pg. 184 # 79 – 83 (odd)
3. Formal Charges: Zumdahl Chapter 8 pg. 409 # 101, 107
4. Electron Configuration: Zumdahl Chapter 7 pg. 406 # 45
5. Quantum Numbers: Zumdahl Chapter 7 pg. 344 # 73

Formula & Reference Sheets

Check Schoology for the formula & reference sheets that will be given on the Exam