

General Chemistry

1st Semester Final Review

The final is 100 multiple choice questions over chapters 1-5. Approximately 25% of the test is mathematical calculations. There will be between 15-25 questions on each of the chapters

Chapter 1- Matter and Change

1. Know how to identify an intensive physical, extensive physical, and chemical property. Differentiate between physical and chemical reactions.
 - a. List two chemical and four physical properties of Iron
 - b. Identify the following as physical or chemical changes
 1. Baking a cake, melting candle wax, dissolving salt in water, garbage rotting, corrosion of metals, crushing a crystal to powder
 - c. Classify these properties: conductivity, ductility, corrosiveness, mass, density, combustibility. (Chemical Intensive, or Extensive physical)
2. Know the differences between elements, compounds, and the two types of mixtures (Homogeneous & Heterogeneous)
 - a. Compare and contrast mixtures and pure substances
 - b. Give two examples of homogeneous and heterogeneous mixtures
3. Know the difference between Exothermic and Endothermic and identify which type is occurring in a given reaction
 - a. A combustion Reaction like wood burning.
 - b. A Medical Ice Pack is snapped and it gets cold.
 - c. Ice Melts
4. Know the basic parts on the Periodic Table
 - a. Identify where metals, nonmetals, and metalloids are found
 - b. A neutral atom with 46 protons is a part of what group?
 - c. Identify the Families and what row they are in (include their ion charge)
 - d. An element in the Alkaline Earth Metals will take what charge?
 - e. What must nitrogen do to become stable? What charge will that make it?

Chapter 2- Measurement and Calculations

1. Know the difference between Accuracy and Precision
 - a. A set of students measure a test tube's mass to be 10.4g, 10.0g, 10.34g, 9.5g is the data as a whole precise if the actual mass is 8.0 grams?
 - b. Using the information above, tell which student was the most accurate. Which one was the most precise?
2. Know how to use significant digits
 - a. Calculate the following and round to proper significant digits (round answers to proper sigs)
 1. $(3.40 \times 10^{-5}) (.00285) / 127.66 =$
 2. $100.0 + 32.98 + 4.2 =$
 3. $(6.626 \times 10^{-34}) (2.1 \times 10^{26}) =$
3. Know how to use dimensional analysis to calculate
 - a. 320 nm to cm
 - b. 4.0×10^{-5} Mhz to Htz

General Chemistry 1st Semester Final Exam

BM King

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