

The goals of this final laboratory exam are to:

1. Test your ability to name organic compounds
2. Test your general chemistry laboratory knowledge and
3. Test your ability to perform simple qualitative analytical tests in order to determine the identity of an unknown clear liquid sample.

After two full semesters in a college-level Chemistry laboratory course, you should be able to independently answer all of the questions and perform all required tasks.

Three sections: (50 points total)

1. Name three compounds whose models have been built for you (3 points each-9 points total)
 2. Short answer questions (25 points)
 3. Analytical Determination of an unknown compound (16 points)
- In part one you will be randomly presented with three ball and stick type models of organic molecules. You will be asked to provide the correct, complete name of each of these molecules (Common or IUPAC). The types of molecules presented to you will be chosen from any of the families we have discussed this semester.
- Part two will be a written section in which you may have to provide short answers to questions or may have to perform simple laboratory calculations that you performed during the semester. Formulas will NOT be provided and remember to BRING YOUR CALCULATORS – I will NOT have extras for you to use!

You should study the lab handouts and manual that you used in this semester. Questions may be asked from any of the laboratory exercises that were completed this term. Some example questions are provided below:

1. What are indicator solutions? How are they used in the laboratory? Provide the name of two indicators you used in the lab this semester.
2. Why would a chemist perform a titration? Describe exactly how a titration is performed in the laboratory.
3. How does one measure the half-life of a sample?
4. What are the solubility rules for alcohols? Are they all water soluble? If not, explain why some would be insoluble in water.
5. Calculate the pH of a solution given the $[\text{H}_3\text{O}^+]$ concentration of $4.5 \times 10^{-3}\text{M}$.
6. Describe the process of refluxing a sample in organic chemistry. Draw the apparatus.
7. What is a gas chromatograph?
8. What does the term "mechanism" of an organic reaction mean?
9. What volume of 0.1M HCl would you need to add to 75 mL of 1.0M NaOH in order to neutralize the solution?
10. Name the following equipment commonly used in the chemistry lab (pictures will be provided of beaker, Erlenmeyer flask, graduated cylinder, pipet, buret, etc.)

In short, you may be asked any questions about any of the hands-on laboratory exercises you completed this semester. They will be general knowledge type questions but you need to demonstrate an understanding of the concepts, procedures, and theories of the laboratory exercises to be successful in a laboratory-based science course.

- In part three, you will have to identify an unknown clear liquid by performing simple tests that we have performed during the semester. The following information **WILL BE GIVEN TO YOU ON THE EXAM**.

Chemistry Final Exam Review Sheet Spring 2014

Anthony S. Fauci



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