CH-101 Practicum Study Guide (2019)

Students: Your practicum will consist of 6 stations. You will have 16 minutes per station. This week we will collect your goggles to use next week during the practicum. Be sure to come appropriately dressed and bring a pencil/pen and a non-programmable calculator.

Below is a list of the techniques and concepts studied throughout the semester which will be tested in the practicum.

Remember the practicum is worth 30% of your lab grade and CANNOT be dropped.

1. Appropriate use of equipment
2. Reading IV bags for electrolytes
3. Identification tests in solutions, colloids and suspensions lab and alcohols, ketones and aldehydes
4. Dosage Calculations (Dimensional Analysis, Ratio & Proportion, and Formula methods)
5. Draw 1º, 2º, and 3º alcohols
6. Reading equipment accurately
7. Naming of laboratory equipment
8. Strong, weak, and nonelectrolytes
9. Make a solution and calculate % concentration (m/m or m/v)
10. Reactions of hydrocarbons and alcohols. Be able to interpret results and identify hydrocarbons as alkanes or alkenes and alcohols as 1º, 2º, and 3º by observation of chemical tests
11. Density of an unknown solid
12. Chemical reactions, observations, balancing, identifying types of reactions
13. Be able to build, draw, and name isomers given a molecular formula (hydrocarbon)
14. Be able to build, draw, and name models of organic compounds (alkanes, alkenes, alcohols, aldehydes or ketones)
15. Calculate theoretical yield of a NaCl synthesis.
16. Be able to interpret a graph of enzyme activity.(i.e., temperature vs. enzyme activity/rate of reaction)
17. Calculate diluted volume or Molarity using $M_1V_1 = M_2V_2$