

Chemistry 257 Final Exam Topics
Fall 2006

- 1) Know and understand the purpose of each chemical used in each experiment.
- 2) Know and understand the theory behind the techniques used in each experiment.
These techniques include:
 - a. Recrystallization
 - b. Simple and fractional distillation
 - c. Liquid-liquid, solid-liquid, and acid-base extraction
 - d. Sublimation
 - e. Gas chromatography
 - f. Melting point
 - g. Boiling point
 - h. Refractive index
 - i. Chromatography
 - j. Solubility
- 3) Be able to draw a flow-chart for a given procedure and an acid-base extraction
- 4) Be able to identify glassware.
 - a. Be able to provide the name of the glassware given a picture
 - b. Be able to draw the glassware given the name
 - c. What's the purpose of each piece of glassware (that you used this semester)?
- 5) Laboratory Safety (Chapter 2)
- 6) Understand and be able to apply the 12 Principles of Green Chemistry
- 7) Be able to provide alternative, greener reagents for a reaction