

CHEM 202
Mini-Exam #5 – Study Guide

Chapt. 10 (sections 10.1-10.8)

- Understand and be able to write products for nucleophilic substitution reactions.
- Understand and be able to write the two mechanisms of nucleophilic substitution and be able to discuss the differences between the two.
- Know all the factors that influence the rate of substitution reactions; nucleophile, structure of halide, leaving group.
- Understand and be able to write the products for elimination reactions and predict the major and minor products.
- Be able to write the two possible mechanisms for elimination reactions.

Chapter 11 (11.1-11.3)

- Be able to name simple alcohols
- Understand and be able to write products for nucleophilic substitution reactions of alcohols, particularly reaction with hydrogen halides.
- Know and be able to write the mechanism for substitution reactions of alcohols.
- Understand and be able to write products for elimination reactions of alcohols, particularly reaction with sulfuric and phosphoric acid.
- Know and be able to write the mechanism for elimination reactions of alcohols.