

CHEM 233: HOMEWORK SHEET
EXAM II (Fall 2004-Dr. Babb)

Chapter 5: A. Thermodynamics, Equilibrium, and Kinetics Review (pg. 150-162)
Homework: 5.10-5.15, 5.26

Chapter 6: A. Alkenes: Degree of Unsaturation and Naming (pg. 169-176)
Homework: 6.1-6.6, 6.24, 6.25, 6.43
B. Cis-Trans Isomers, E,Z Designation, and Alkene Stability (pg. 176-184)
Homework: 6.7-6.13, 6.26, 6.27, 6.29, 6.34, 6.37, 6.41, 6.42
C. Electrophilic Addition Reactions (pg. 184-199)
Homework: 6.14-6.16, 6.19, 6.39, 6.40, 6.47-6.50

Chapter 9: A. Enantiomers and Chirality (pg. 275-279)
Homework: 9.1-9.3, 9.32, 9.38
B. Optical Activity (pg. 280-282)
C. R,S Designation (pg. 282-286)
Homework: 9.6-9.9, 9.43-9.46, 9.48, 9.50
D. Diastereomers, Meso Compounds, and Racemic Mixtures (pg. 287-295)
Homework: 9.11, 9.12, 9.14, 9.15, 9.17, 9.19, 9.52, 9.53, 9.80-9.83

Chapter 7: A. Addition of Halogens to Alkenes (pg. 206-212)
Homework: 7.3-7.6
B. Addition of Water to Alkenes (pg. 212-219)
Homework: 7.7-7.10, 7.41
C. Other Alkene Reactions (pg. 219-228)
Homework: 7.13-7.16, 7.23-7.25, 7.28, 7.35, 7.40, 7.50
D. Alkene Radical Reactions to Form Polymers (pg. 228-234)

NOTE: Exam II is Thursday, October 14 (7-8:30 PM) and will cover most of the topics listed on this sheet. You are responsible for material covered in lecture, reading material in text and material covered in homework problems. To the exam bring a #2 pencil, pen, non-programmable calculator and a photo ID.