*CHEM 242 – Lecture 8 24/01/2014*

Overheads: - Outline

Recap Monday: Predicting SN2 *vs* SN1 Reactions



Elimination Reactions

Nu- ⇨ also a base



⇨ Base removes H+ from -C as LG leaves (concerted ⇨ one step)

Rate = k[R-Br][OH-] = bimolecular E2 reaction

What if there is more than one -H?



⇨ form most stable alkene = most substituted

⇨ E2 = regioselective

Zaitsev’s Rule: Most substituted alkene is favored

Exceptions to Zaitsev’s rule:





Elimination can also go by a 2-step mechanism: (like SN1)



Rate = k[R-Br] ⇨ base not in RDStep, unimolecular E1

⇨ E1 favored if C+ stable: 3° R-Br > 2° >> 1° no E1 for 1°

Regiochemistry: Zaitsev still rules



Competition between E1 & E2

- similar factors to SN1/SN2

1) Degree of Substitution:





QUIZ #2 ends here