

Name: _____

Organic I Lecture
Spring 2010
Quiz #5
(10 points)

1. Complete the following reaction by filling in the structure of the expected product. (3 points, problem 6-20d)



2. Provide an energy diagram of a typical S_N1 reaction. (2 points)
3. Which sequence ranks the following electrophiles in order of increasing reactivity in an S_N2 reaction? (3 points)

1 2-bromopropane 2 1-bromo-2,2-dimethylbutane 3 1-bromohexane

- a) 1<2<3 b) 2<3<1 c) 3<1<2 d) 3<2<1 e) 2<1<3 f) 1<3<2
4. Circle the stronger nucleophile out of the following pair of structures. (2 points)

NaPH₂ or NaOH