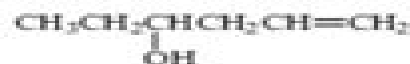


Organic Chemistry 32-235
Practice Exam #4

Part 1:

1. The correct IUPAC name for the following structure is.



- (A) 5-hexen-3-ol (B) 1-hexen-4-ol
(C) 3-hydroxy-5-hexene (D) 1-hexen-3-ol
(E) 4-hydroxy-1-hexene

(A) alcohol is the parent name, taking precedence over a ketone.

2. Which of the following alcoholic proton (OH) is expected to be the most acidic?



CAU



124



5



(C). Look at conjugated base stability. Cl withdraws electron density.

3. Which is the best reaction sequence to use if one wants to accomplish an alcohol synthesis shown below?



- (A) $\text{NaOH}/\text{H}_2\text{O}$ (B) $\text{KMnO}_4/\text{H}_2\text{O}$
(C) i) $\text{Hg}(\text{OAc})_2/\text{H}_2\text{O}$; ii) NaBH_4 (D) i) BH_3 ; ii) $\text{H}_2\text{O}_2/\text{HO}^-$
(E) none of the above

Markovnikov addition of water. (C) Oxymercuration-demercuration.

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