SCH4U: Organic Chemistry Culminating Worksheet

Mr. Krstovic

Name:			_		Dat	e:	<u> </u>

Complete the following worksheet as we are go through the organic chemistry unit. You will be asked to submit this worksheet for evaluation.

1. Indicate whether the following alcohols are primary, secondary, or tertiary.

н _s с—он	н ₃ с — Он ОН ₃	с) СН3
d) OH	e)2-methyl-2-pentanol	f) OH OH

- Diethyl ether (commonly called "ether") is a structural isomer of 1-butanol. Which compound would you expect to have the higher boiling point? Explain your answer.
 Draw all the structural isomers of C₇H₁₆. Name each structure you draw.

4.	
CI NO ₂	Name
H ₃ C CH ₃	Name (HINT: the longest chain must contain both functional carbonyl groups)
H ₃ C CH ₃	Name

- $5.\ Draw\ the\ \textbf{complete}\ \textbf{structural}\ \textbf{diagram}\ of\ 3\text{-chloro-}2, 5\text{-dimethylhexanal}$
- 6. Draw the line structural diagram of 3-sec-butyl-6-chlorocyclohexa-1,4-diene
- 7. Draw the **condensed structural diagram** of s-butyl ethyl ether