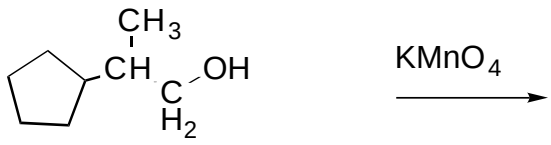
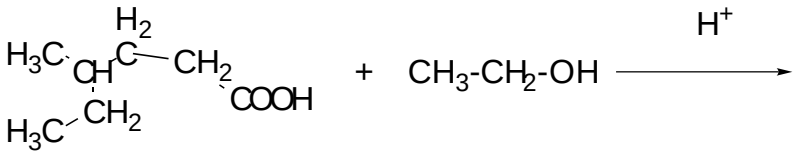
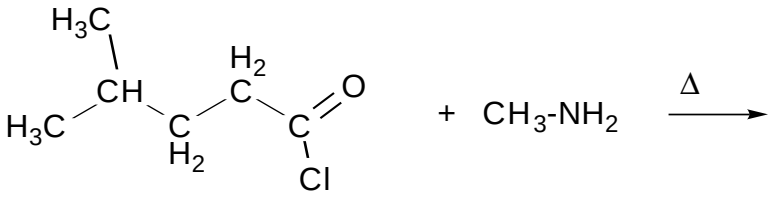
CH1020 Exam 2 Name_____

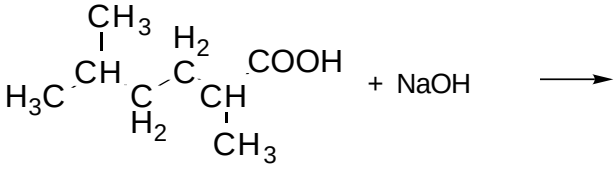
February March 14, 2001 SSN_____Seat No_____

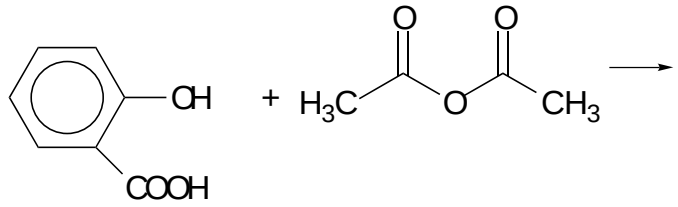
1. Complete the following equations. **Name all organic reactants and products.** (35%)

a. 

b. 

c. 

d. 

e. 

don't name Asprin (draw the structur

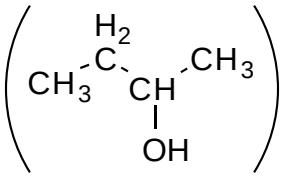
2. Draw the structures of the compounds whose names are given below. (20%)

a. 2-Chloro-4-bromophenol

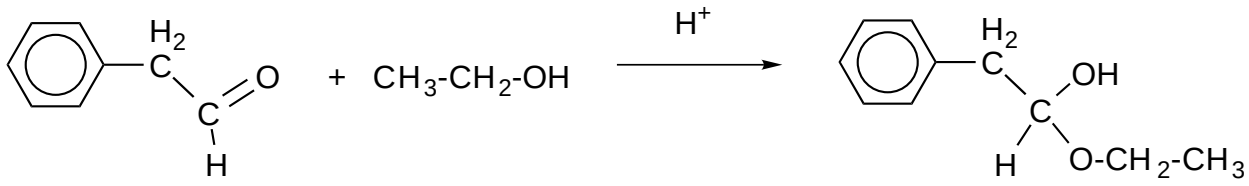
b. *Trans*-2-methylcyclopentanol

c. 1,4-diphenyl-3-pentanol

d. Diisopropyl ether

3. Write two equations which would allow the preparation of 2-butanol  in one step. (20%)

4. Write the mechanism for the reaction shown below. (15%)



5. The ir spectrum of an unknown compound shows it to be an alcohol, the mass spectrum gives a molecular weight of 60 and the carbon NMR shows two different kinds of carbons. Propose a reasonable structure for the unknown. (10%)

Do not write below this line

1. _____ 2-3. _____

4-5. _____ Total minus_____

Grade_____