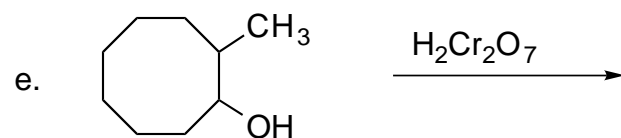
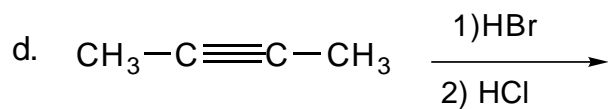
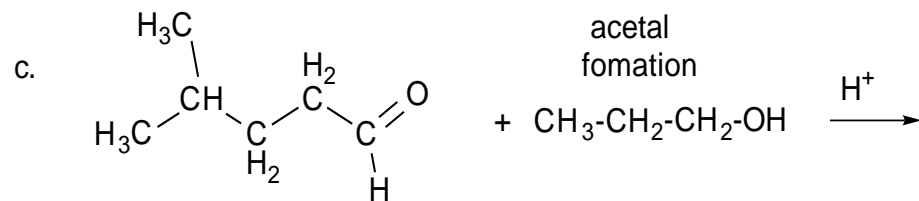
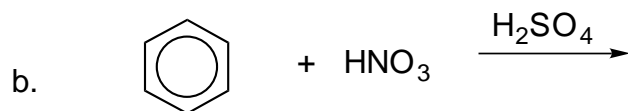
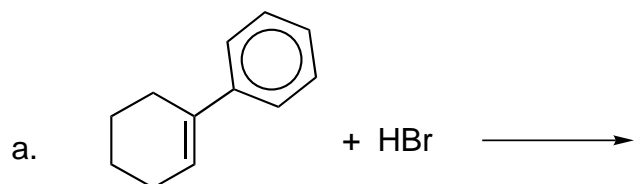


CH1020 Exam 1 Name \_\_\_\_\_

February 14, 2001 SSN \_\_\_\_\_ Seat No \_\_\_\_\_

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



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

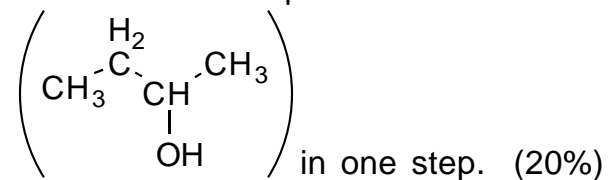
a. 2-Chloro-4-bromophenol

b. *Trans*-2-methylcyclopentanol

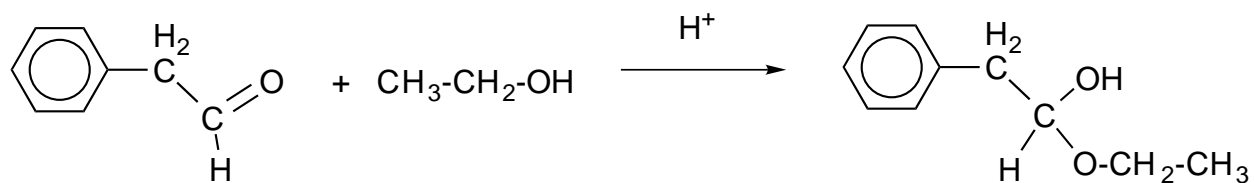
c. 1,4-diphenyl-3-pentanol

d. Diisopropyl ether

3. Write two equations which would allow the preparation of 2-butanol



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

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1. \_\_\_\_\_ 2-3. \_\_\_\_\_

4-5. \_\_\_\_\_ Total minus \_\_\_\_\_

Grade \_\_\_\_\_