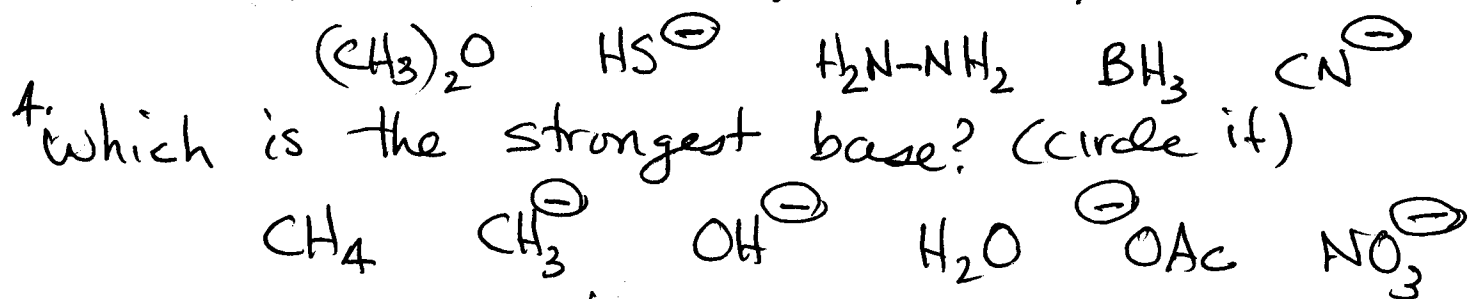


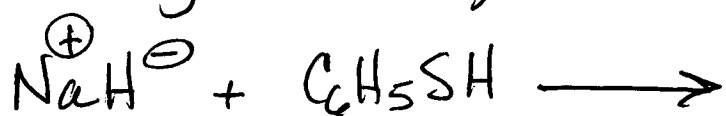
## Practice Exam 1, Part II

1. The conjugate acid of  $\text{CH}_3\text{NH}^-$  is : \_\_\_\_\_
2. The conjugate base of  $\text{CH}_3\text{CH}_2\text{SH}$  is : \_\_\_\_\_
3. Which is a Lewis acid? (circle it).

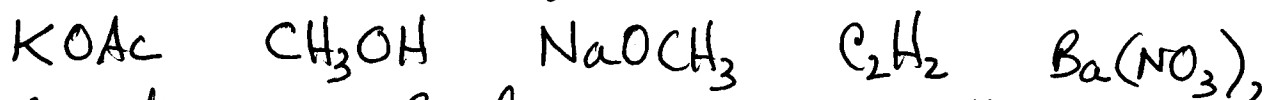


5. What is the <sup>organic</sup> product of the following rxn?  
 $\text{HO}^- + \text{HO}_2\text{C}-\text{CO}_2\text{H} \longrightarrow$  \_\_\_\_\_

6. Write the curved arrow mechanism for the following reaction; show the products.



7. Circle the ionic compounds in the list below :



8. Circle the covalent compounds in the list below



9. Show an example of hydrogen bonding: