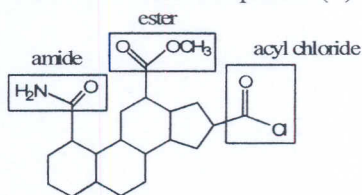


Organic Chemistry 2342-Quiz 8

1. Which of the groups shown in the boxes reacts fastest with nucleophiles and which one reacts slowest? Explain. (4)



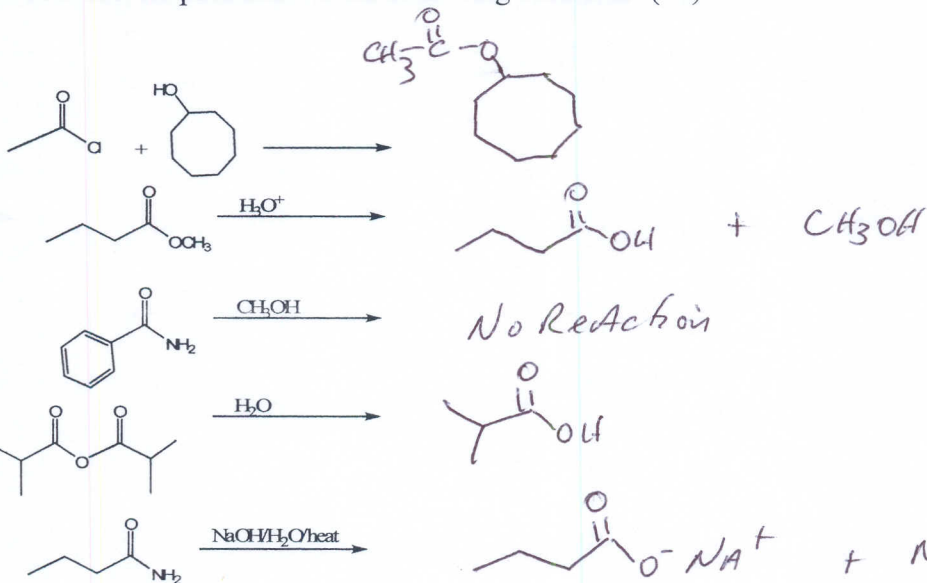
most reactive: Acyl chloride

bc Cl^- is weakest base + Better Leaving Group

Least reactive: Amide

bc NH_2 is strongest base + Poor Leaving Group

2. Provide the products for the following reactions. (10)



3. Provide a mechanism for the following transformation. (6)

