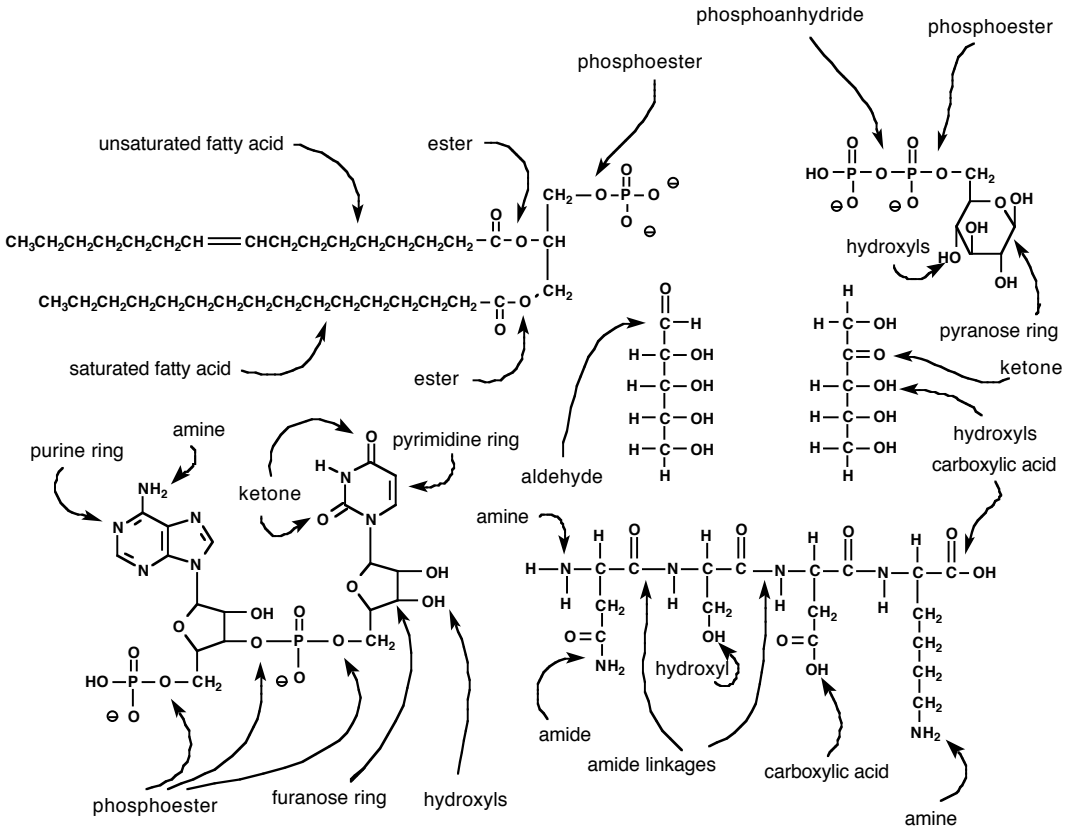
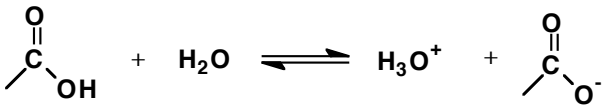
CHEMISTRY 260 BIOCHEMISTRY
ANSWERS TO PRACTICE QUESTIONS #1

2) Identify the functional groups in the following molecules.



3) Name the product molecule(s) or draw structures for each of the following reactions:

a $\text{—CH}_2\text{-NH}_3^+ + \text{H}_2\text{O} \rightleftharpoons \text{H}_3\text{O}^+ + \text{—CH}_2\text{-NH}_2$

b 

c) amide linkage and water
d) ester and water
e) phosphoester and water
f) phosphoanhydride and water
g) carboxylic acid and hydroxyl
h) some linkages- peptides all linkages- amino acids
i) deoxynucleotides
j) phosphoester and phosphate

4) hydrogen bonding donor- 3 hydrogen bonding acceptor- 5

5) hydrogen bonding donor- 3 hydrogen bonding acceptor- 7