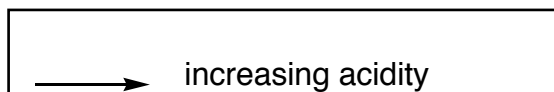
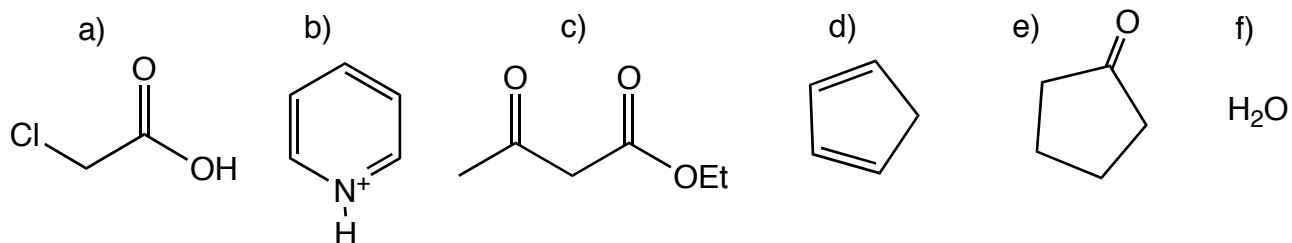


Chemistry 3371, Final Exam

Name _____

May 5, 2005

1. (24 points) Arrange the following molecules in order of increasing acidity and give the conjugate base below each structure with resonance structures as appropriate.



2. (21 points) Give structures for the following compounds. Show the sugar as a Haworth projection and the amino acid as a Fischer projection.

- adipic acid
- benzophenone
- an acidic L-amino acid (Fischer projection)
- β -D-arabinofuranose (Haworth projection)
- ethyl (Z)-2-oxo-3-pentenoate
- lithium diisopropylamide
- phthalimide