Academic Honesty Policy. Academic honesty is strictly enforced on quizzes, exams, and other aspects of this course. Academic dishonesty will result in a failing grade in the class and a letter in the student's file. Activities constituting academic dishonesty include:

Cheating
- Copying from others during an examination.
- Communicating exam answers with other students during an examination.
- Offering another person's work as one's own.
- Taking an examination for another student or having someone take an examination for oneself.
- Tampering with an examination after it has been corrected, then returning it for more credit.
- Using unauthorized materials, prepared answers, written notes, or concealed information during an examination.

Dishonest Conduct
- Stealing or attempting to steal an examination or answer key from the instructor.
- Allowing another student to copy off of one's own work during a test.

Collusion
- Any student who knowingly or intentionally helps another student perform any of the above acts is subject to discipline for academic dishonesty.

I understand and will abide by this academic honesty policy: ____________________________ (signature)

1. Use curved arrows to indicate the flow of electrons in the following reaction: (2 pts)

2. (4 pts)
a. Write chemical equation for the acid-base equilibrium that occur when sodium cyanide (NaCN, i.e., Na⁺ CN⁻) is mixed with acetic acid (CH₃COOH).

b. Does the equilibrium lies substantially to the right, to the left, or in the middle? ______________
c. Estimate the equilibrium constant. ____________ (You must show your work, below, to receive credit.)

3. (Smith, 2.38e and 2.39c, 4 pts)
a. Rank the following compounds in order of increasing acidity: ___ < ___ < ___
   (a) CH₃OH
   (b) CH₃NH₂
   (c) CH₃CH₃

   a. Rank the following ions in order of increasing basicity: ___ < ___ < ___
   (a) CH₃COO⁻
   (b) CH₃CH₂O⁻
   (c) ClCH₂COO⁻