Chemistry 439 Quiz Topics
For: April 1, 2003 (so anything is possible)

Name______________________   Student Number_________________

This quiz consists of 50 points.

There will be two structure problems worth about 25 pts.

Probably some other question about the determination of structures.

Topics for short answer questions:

Vector model
Rotating frame
Spin relaxation
  a. Longitudinal ($T_1$)
     i) measurement of $T_1$ values
  b. Transverse ($T_2$)
     i) measurement of $T_2$ values
Dipolar relaxation
Sampling the FID
  a. SW and dwell time (Nyquist criterion)
  b. quadrature detection
  c. digital resolution
Window functions (lb vs. resolution enhancement) and zero filling
Phase correction
Mass spec methods
  a. MALDI
  b. electrospray