

Quiz 1 Chem 232-01

Your name KEY

Spring '09

Student ID# _____

1. State the dimensions of the following values (if no dimension, state "dimensionless") (6 pts)

a. the x axis scale of an IR spectrum: cm^{-1}

b. the coupling ("J") constants of non-equivalent protons in NMR: Hz

c. the operating frequency of an NMR spectrometer: Hz (MHz is o.k.)

2. 4. How many peaks to you expect to find in the ^{13}C NMR spectra of:

a. chlorobenzene? 4 (2 pts)

b. acetone? 2 (2 pts)