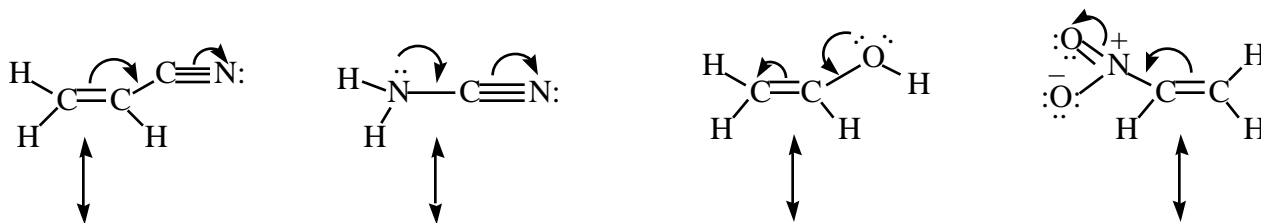


## Chemistry 2521; Fall 1999; Sample Quiz 2

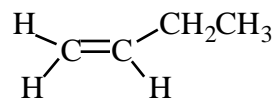
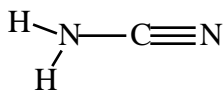
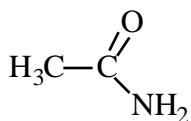
Printed Name (Last, First) \_\_\_\_\_

Your Major: \_\_\_\_\_

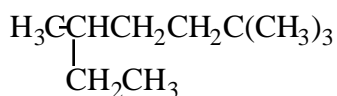
1. (8) Draw the **resonance contributing structures** indicated by the **curved arrows**. Assign formal charges and show unshared electron pairs as appropriate. (*No partial credit allowed for this problem!*)



2. (6) Indicate **the orbital hybridization** for each **non-hydrogen atom** in the following molecules:



3. (6) Give either the **IUPAC name** or the **correct structure** for each of the following compounds:



2,3,4-trimethylpentane

4-isopropyl-5-methylnonane

4. (2) Circle the element that has the ground-state **electron configuration** of  $1s^2 2s^2 2p^1$ :

C      O      F      N      S      Cl      B      Ne      P

5. (3) Circle the structure of the compound that has the **quaternary carbon** atom:

