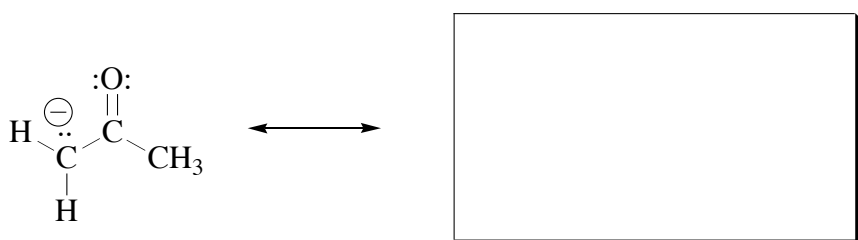
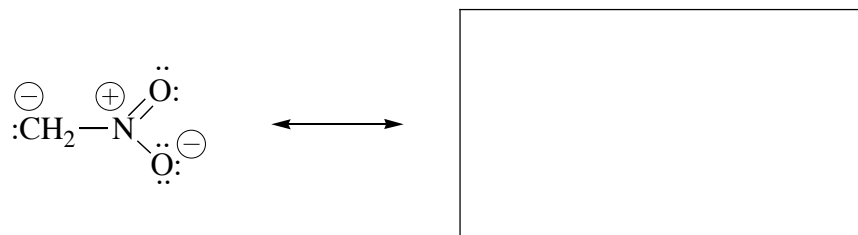
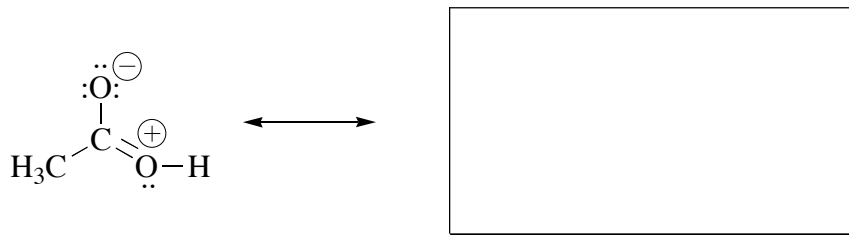


Chemistry 2521; Fall 2005; Quiz 1

Printed Name (Last, First) _____

1. (12; 4 pts each) In the provided boxes, draw **one**, the most important **resonance contributor** for each of the following species. (Make sure to show non-bonding electrons and formal charges, when appropriate)



2. (3) What is the approximate C-C-C bond angle in propyne, $\text{CH}_3\text{C}\equiv\text{CH}$

109.5° 180° 120° 90° 60° 160° 140°

3. (4) Circle the structure of the compound that has **dipole moment $\mu = 0$ D**:

HCN H₂CO BF₃ CHCl₃ CF₂Br₂ CH₃OCH₃ H₂O NH₃

4. (3) Circle the structure of the compound that has the functional group of a **ketone**:

CH₃COOH CH₃CO₂CH₃ CH₃OCH₃ CH₃COCH₃ CH₃OCH₂CHO CH₃CONH₂

5. (3) Circle the structure of the compound that has the **most polar** covalent bond:

H₂O HF CH₃Li BH₃ CH₃F NH₃ NF₃ F₂O F₂