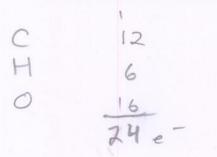
Quiz 2 (30 points)

Name Key

Consider the molecular formula C₃H₆O.

(10 points)

- a. How many valence electrons are present?
- b. Draw a **Lewis** structure for this molecule (there are many reasonable structures). Show all lone pairs of electrons.



or H-C-C-C-H

- 3. Consider the structure shown below.
 - Show the other two reasonable resonance structures (there are only three reasonable forms)
 - Use electron-pushing to show how to "get" to the next resonance form (show from left to right).
 - c. Circle which form is the major form.
 - d. What is the hybridization of the oxygen atom?
 - e. In the structure shown below, what type of atomic orbitals are the lone pair of electrons of the oxygen atom in? (are all three lone pairs in the same type?)

Sp² in all major
Three sametimes

(20 points)

(20 points)

(20 points)

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H

Sp² in all major
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