

CHEM106 Quiz 4

Name on back please...

Please show all work and all equations to receive any credit

1. Draw the correct and best Lewis Structure for each of the following; be sure to show all valence electrons, all nonzero formal charges, and all resonance structures (if they exist).
 - a. C_2H_2
 - b. $[CO_3]^{2-}$
 - c. $[HPO_4]^{2-}$
 - d. ICl_5
 - e. SF_6
2. Compare the relative C-O bond lengths (calculate the C-O bond orders) found in CO_2 , CO , CO_3^{2-} , and CH_3COO^- . You must draw the Lewis structure for each, show all work and fully support your answer.