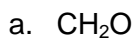


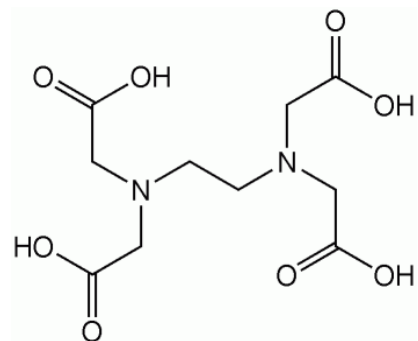
Complete the following.

1. Choose **two (2)** of the compounds below and draw Lewis Structures for the compound, indicate the hybridization of the central atom and estimate all bond angles. (6 points each)



2. Below is a skeletal structure for the compound ethylenediaminetetraacetic acid (EDTA), a common food preservative. (6 points, 2 each)

- a. What is the molecular formula for EDTA? (Note: each nitrogen atom has one unshared pair of electrons and each oxygen has two unshared pairs)



- b. How many sigma bonds are present in the structure?

- c. How many pi bonds are present in the structure?

