

Bio 111 Pre-Lab for Lab #01: Name _____ Chemical Structures TA & Sect. _____

Note: You may find the Molecular Formula Calculator useful when answering the questions on this pre-lab. You can find it by going to the Bio 111 Home Page (<http://intro.bio.umb.edu>), clicking on the On-Line Lab Manual link, and going to the links for this lab.

1) Draw a molecule with the formula CH_2O . That is, a molecule that follows all the bonding rules and is made of exactly one atom of carbon, one atom of oxygen, and two atoms of hydrogen. Show all appropriate lone pairs and charges (if present). (3 pts)

2) Draw two different molecules, all having the same formula: CH_3NO . That is, each molecule should follow all the bonding rules and consist of one carbon, three hydrogens, one nitrogen, and one oxygen. Show all appropriate lone pairs and charges (if present). (3 pts each)

a)

b)

3) On the back of this sheet, give 3 to 5 short (~1 sentence each) bullet points describing, *in your own words*, what you will be doing in the lab today. There are a wide range of full-credit answers here; we will grade this as a 1-point check off.

