

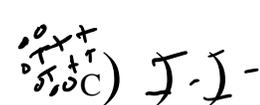
**BIO 130 Worksheet 3: Atoms & Molecules**

Name Melanie Markson Section: 2 Date: 8/25/20

1. Using the Periodic Table of Elements, determine the number of protons, neutrons, and electrons in each of the following atoms. Please show your work. Draw a model of each of the atoms in the box showing the electrons in the proper energy levels. (30 pts)

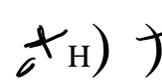
A. Carbon 12.011 mass      6 protons  
6 atomic #      6 electrons  
         neutron      6 neutrons

+ = Proton  
 - = electron  
 o = neutron



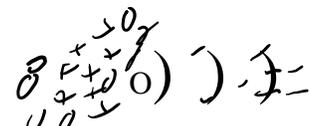
# of electrons in orbit 1 = 2  
 # of electrons in orbit 2 = 4

B. Hydrogen 1.008 mass      1 protons  
1 atomic #      1 electrons  
         neutron      0 neutrons



# of electrons in orbit 1 = 1

C. Oxygen 15.999 mass      8 protons  
8 atomic #      8 electrons  
         neutron      8 neutrons



# of electrons in orbit 1 = 2  
 # of electrons in orbit 2 = 6



