

1 (20 points total). Answer both parts below.

a. (5 points) For the following isotope, give the total number of protons, neutrons, and electrons and then the number of valence electrons and core electrons. Show your work.

For ^{20}F

total number of neutrons =

total number of protons =

total number of electrons =

number of valence electrons =

number of core electrons =

b. (15 points) For each of the following molecules, draw the Lewis structure and check if your Lewis structure is correct.

H C C O O C Si H

H H H

H C C Se C C P H

H H Br H

N C C C O N Sn H

H H Cl

1 (20 points total). Answer both parts below.

a. (5 points) For the following isotope, give the total number of protons, neutrons, and electrons and then the number of valence electrons and core electrons. Show your work.

For ^{20}F

total number of neutrons = 11
 total number of protons = 9
 total number of electrons = 9
 number of valence electrons = 7
 number of core electrons = 2

b. (15 points) For each of the following molecules, draw the Lewis structure and check if your Lewis structure is correct.

