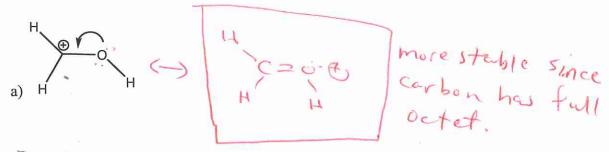
1) True or False: All resonance structures are created equal. Explain your answer.	
for 51 10 00 hegative charge is not 5 haved equa	lly-
example . resonance structures are	
2) What is the difference between a compound and a molecule?	
2) What is the difference between a compound and a molecule: all compounds are molecules but not all molecules equa	-
are compounds, a compared is a molecule made of as	1
From different elements.	ONG
3) What is an orbital?	
3) What is an orbital? a 3-D plot of the wave function where the probability	12
of finding an electron is high.	175
4) How many electrons does carbon have? How many are valence electrons? What third-row element has the	
same number of valence electrons as carbon?	
al carbon 152 252 2p2 or a electrons	
alactors 2522 at	
5) 4 valence electrons 2522pt	
c) Silicon	
5) Referring to the periodic table as needed, write electron configurations for all of the elements in the third	
period. Na 35' 5 152252 2p6 3523p4	
Jeon Mg 352 1 C1 152 252 2 p6 352 3 p5	
Jeon My 352 Declare Al 3523 P Si 3523 P P 152252 2 P6 3523 P P 152252 2 P6 3523 P	
35 C. 3523PT AC 1502	
0 102152 2 p6 352 3 p3	,
(1)	
6) Species that have the same number of electrons are described as isoelectronic. What +2 ion is isoelectronic	
THE CONTRACT OF THE CONTRACT O	
b) ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
with Na+? What -2 ion? b) c) mg +2 b) c)	
7) Which of the following ions possess a noble gas configuration?	
a) K ⁺ b) He+ c) H- d) Ø- e) E- g) Ca+2	



Compare the stabilities of the two Lewis structures. Are the two structures equally stable or is one more stable that the other? Why?

that the other? Why?

Compare the stabilities of the two Lewis structures. Are the two structures equally stable or is one more stable that the other? Why?

10) Listing the atoms in the order CHNOP, what is the molecular formula of ATP? How many unshared electron pairs does ATP have?