## Homework 06 - Periodic Trends

Question 1	4 pts
Let X be a hypothetical element. Which of the following would be the largest?	
○ X <sup>2+</sup>	
○ X <sup>2</sup> -	
○ X	
○ X <sup>+</sup>	
○ X <sup>-</sup>	
Question 2	4 pts
How many valence electrons are in a Kr atom?	
0 8	
0 0	
O 7	
O 2	
Question 3	4 pts
The P <sup>2-</sup> anion has how many total electrons and how many valence electrons	
respectively?	
O 17, 7	
O 16, 6	
O 16, 8	
O 18, 8	
O 17, 8	
O 16, 7	
O 17, 6	
Question 4	4 pts
	- 1
Consider the elements lithium, oxygen, fluorine, and neon. Based on their position periodic table, which element would you expect to have the GREATEST tendency tattract a shared pair of electrons?	
O lithium	
O neon	
O oxygen	
O fluorine	
Question 5	4 pts
The electronegativity of nonmetals is relatively as compared to the	
electronegativity of metals.	
O the same	
○ high	
Depends on the elements being compared.	
Olow	
Overtion C	Frata
Question 6	5 pts
Which of the following elements would be expected to have the highest electronega	ativity?
O Na	
O Na	
○ N	
O He	
O C	
O P	

Generally speaking, in the periodic table, electronegativity (decreases, increases) when moving from left to right and (decreases, increases) when moving from top to bottom of the periodic table.

increases, increases

decreases, increases

increases, decreases

O decreases, decreases