Name:		Date:	:	HURBAN EASSEMBLY	
Chemistry ~ Ms. Hart <u>C</u>	lass: Ar	nions or	Cations	SCHOOL FOR CRIMINAL JUSTICE	
4.9 Electronegativity					
 The atoms of which element in Group (VIA) of the Periodic Table have the group tendency to gain electrons? O Se S Te 	p 16 eatest	 3) Which e greatest att bond? 1. As 2. N 3. Bi 4. P 	lement has an traction for elec	atom with the ctrons in a chemical	
 2) Based on Reference Table S, atoms of these elements have the strongest at for the electrons in a chemical bond? 1. Al 2. P 3. Si 4. S 	of which traction	 4) As the elin order of an increase atomic rational atomic rationatomic rational atomic rational atomic rational ato	lements of Gro increasing ator e in adius egativity ization energy of electrons in	up 17 are considered mic number, there is the first shell	

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- 2. P
- 3. Si
- 4. S

3) Which element has an atom with the greatest attraction for electrons in a chemical

4) As the elements of Group 17 are considered in order of increasing atomic number, there is an increase in

- 2. electronegativity
- 3. first ionization energy
- 4. number of electrons in the first shell

5) An atom of which element has the greatest attraction for the electrons in a bond with a hydrogen atom?

- 1. chlorine
- 2. silicon
- 3. phosphorus
- 4. sulfur

6) Which halogen has the least attraction for electrons?

- 1. F
- 2. Br
- 3. Cl
- 4. I
- 7) Which atom has the weakest attraction for electrons in a chemical bond?
- 1. a boron atom
- 2. a calcium atom
- 3. a fluorine atom
- 4. a nitrogen atom

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8) Which general trend is found in Period 3 as the elements are considered in order of increasing atomic number?

- 1. increasing atomic radius
- 2. increasing electronegativity
- 3. decreasing atomic mass
- 4. decreasing first ionization energy

9) Which atom in the ground state requires the least amount of energy to remove its valence electron?

- a. lithium atom
- b. potassium atom
- c. rubidium atom
- d. sodium atom

10) Which element requires the least amount of energy to remove the most loosely held electron from a gaseous atom in the ground state?

- a. bromine
- b. calcium
- c. sodium
- d. silver

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