Nam	e:		
1)	An atom of argon rarely bonds to an atom of another element because an	11)	The compound XCI is classified as ionic if X represents the element
	argon atom has		A) I B) H C) Br D) Rb
	A) 2 electrons in the first shell B) 22 neutrons	12)	Which of the following Lewis electron-dot diagrams represents calcium oxide?
	C) 3 electron shells D) 8 valence electrons		2+ [00]2-
2)			A) $\operatorname{Ca}^{2+} \begin{bmatrix} \bullet & \bullet \\ \bullet & \bullet \end{bmatrix}^{2-}$ C) $\operatorname{Ca}^{*} \bullet \bullet \bullet \bullet$
2)	A barium atom attains a stable electron configuration when it bonds with		2+ 2-
	A) two chlorine atoms C) one sodium atom B) two sodium atoms D) one chlorine atom		B) $\begin{bmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} \\ \mathbf{c} & \mathbf{c} & \mathbf{c} \end{bmatrix}^{2+} \mathbf{O}^{2-}$ D) $\mathbf{c} \mathbf{c} \mathbf{c} \mathbf{c} \mathbf{c} \mathbf{c} \mathbf{c} \mathbf{c} $
3)	When sodium and fluorine combine to produce the compound NaF, the ions formed have the same electron configuration as atoms of	13)	Which two substances are covalent compounds?
	A) argon, only B) both argon and neon C) neon, only D) neither argon nor neon		A) KI(s) and NaCl(s) C) NaCl(s) and HCl(g) B) $C_6H_{12}O_6(s)$ and HCl(g) D) $C_6H_{12}O_6(s)$ and KI(s)
4)	Which statement describes what occurs as two atoms of bromine combine to become a molecule of bromine?	14)	As a bond between a hydrogen atom and a sulfur atom is formed, electrons are
	 A) Energy is released as a bond is broken. B) Energy is released as a bond is formed. C) Energy is absorbed as a bond is formed. D) Energy is absorbed as a bond is broken. 		A) shared to form a covalent bond B) transferred to form an ionic bond C) transferred to form a covalent bond D) shared to form an ionic bond
5)	Given the balanced equation representing a reaction:	15)	Which of the following formulas represents a molecular compound?
			A) Kr C) NaI
	$Cl_2(g) \rightarrow Cl(g) + Cl(g)$		B) N ₂ O ₄ D) LiOH
	What occurs during this change? A) Energy is released and a bond is formed.	16)	An oxy gen molecule contains a double bond because the two atoms of oxy gen share a total of
	B) Energy is absorbed and a bond is formed.		A) 1 electron C) 2 electrons
	C) Energy is absorbed and a bond is broken.		B) 3 electrons D) 4 electrons
	D) Energy is released and a bond is broken.	17)	Given a formula for oxygen: O=O
5)	Which term indicates how strongly an atom attracts the electrons in a chemical bond?		•
	A) activation energy C) atomic mass		What is the total number of electrons shared between the atoms represented in this formula?
	B) alkalinity D) electronegativity		A) 1 B) 2 C) 8 D) 4
7)	Which element has an atom with the <i>greatest</i> attraction for electrons in a chemical bond?	18)	Which of the following elements is composed of molecules that each contain a multiple covalent bond?
	A) N B) P C) Bi D) As		
8)	Atoms of which element have the <i>greatest</i> tendency to gain electrons?		A) chlorine C) nitrogen B) fluorine D) hydrogen
	A) bromine C) iodine	19)	The degree of polarity of a chemical bond in a molecule of a compound
	B) chlorine D) fluorine		can be predicted by determining the difference in the
9)	Which substance contains bonds that involved the transfer of electrons from one atom to another?		A) atomic masses of the bonded atoms in a molecule of the compoundB) electronegativities of the bonded atoms in a molecule of the
	A) NH ₃ C) Cl ₂		compound
	B) KBr D) CO ₂		C) melting points of the elements in the compoundD) densities of the elements in the compound
10)	The bonds in BaO are best described as	20)	
	A) covalent, because valence electrons are transferred	20)	The chemical bond between which two atoms is <i>most</i> polar? A) C-N C) H-H
	B) ionic, because valence electrons are transferred		A) C-N C) H-H B) S-C1 D) Si-O
	C) ionic, because valence electrons are sharedD) covalent, because valence electrons are shared		2) 3.0

12)	in the box below, araw the election-dot (Lewis) structure of an atomor phosphorus.
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	그는 이 그는 사람들이 나가 하는 것이 되는 사람들이 다른 사람들은 사람들이 되었다면 하는데 그렇게 되었다.
13)	In the box below, draw the electron-dot (Lewis) structure of an atom of iodine.
13)	in the box below, draw the electron-dot (Lewis) structure of an atom of found.
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14)	In the box below, draw the electron-dot (Lewis) structure of phosphorus tri-iodide (a covalent compound).
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15)	In the box below, draw the electron-dot (Lewis) structure of carbon disulfide (a covalent compound).
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