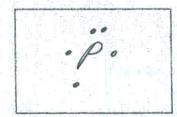
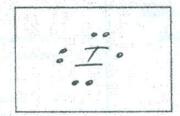
)	An atom of argor rarely bonds to an atom of another element because an	(11)	The compound ACI is classified a cionic i A represents the element
	argon atom has		A) I B) H (A+ NA C) Br (3) Rb
	A) 2 electrons in the first shell	12)	Which of the following Lewis electron-dot diagrams represents calcium
	B) 22 neutrons		oxide?
	C) 3 electron shells 8 valence electrons 1/2.4/5 GASES STRAIT OCCUPY	an t	© Ca 2+ 100 2- C) Cax:0:
))	8 valence electrons NOBLE GASES, STABLE OCTET		(a) Cax.O.
2)	A barium atom attains a stable electron configuration when it bonds with two chlorine atoms (C) one sodium atom		r ex ¬2+ 2-
	B) two sodium atoms D) one chlorine atom	120	B) Cax O D) Ca*O:
3)	When sodium and fluorine combine to produce the compound NaF, the		REMEMBER: brackets, charges, 8 do to around
	ions formed have the same electron configuration as atoms of	13)	Which two substances ar covalent ompounds?
Ne	A) argon, only Na Nation neon, only 2-7 258		A) KI(s) and NaCl(s) NM+NM C) NaCl(s) and HCl(g)
238	B) both argon and neon D) neither argon nor neon		$C_6H_{12}O_6(s)$ and $HCl(g)$ D) $C_6H_{12}O_6(s)$ and $Kl(s)$
4)	Which statement describes what occurs as two atoms of bromine combine to become a molecule of bromine	14)	As a bond between (hydrogen atom and sulfur atom is formed, electrons are
	A) Energy is released as a bond is broken. Br + Br -> Br + E	hereu	shared to form a covalent bond
	Energy is released as a bond is formed.	107	B) transferred to form an ionic bond
	C) Energy is absorbed as a bond is formed.D) Energy is absorbed as a bond is broken.		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 (molecular compound?
2)	Given the balanced equation representing a reaction.	13)	A) Kr C) Nal
{e	Fregy + Cl ₂ (g) → Cl(g) + Cl(g)		O) NO NA + NA D) LIOH
		16)	Ar(oxy gen) molecule contains a double bond because the two atoms of
	What occurs during this change?	10)	oxy gen share a total of
	A) Energy is released and a bond is formed.		A) 1 electron C) 2 electrons
	B) Energy is absorbed and a bond is formed. Energy is absorbed and a bond is broken.		B) 3 electrons
	D) Energy is released and a bond is broken.	17)	Given a formula for oxygen:
6)	Which term indicates how strongly an atom attracts the electrons in a		
	chemical bond?		What is the total number of electrons shared between the atoms
	A) activation energy C) atomic mass		represented in this formula?
	B) alkalinity electronegativity EN		A) 1 B) 2 C) 8 () 4
7)	Which element has an atom with the <i>greates</i> attraction for electrons in a chemical bond?	18)	Which of the following elements is composed of molecules that each
	Crodins		contain amultiple covalent bond?
8)	4.0 3.4 3.2 3.0		A) chlorine CI-Cl nitrogen N = N B) fluorine F-F D) hydrogen H-H
0)	A) bromine 3.0 C) iodine 2.7	19)	The degree of polarity of a chemical bond in a molecule of a compound
	B) chlorine 3.2	19)	can be predicted by determining the difference in the
9)	Which substance contains bonds that involved the transfer of electrons		A) atomic masses of the bonded atoms in a molecule of the compound
	from one atom to another?		electronegativities of the bonded atoms in a molecule of the
	A) NH ₃ C) Cl ₂		compound AEND, APOLARITY, A IONIC C) melting points of the elements in the compound characters
	KBr /4 + N/4 = ION/C D) CO₂		C) melting points of the elements in the compound Character D) densities of the elements in the compound
10)	The bonds in BaO are best described as	20)	The chemical bond between which two atoms is <i>most</i> polar?
	A) covalent, because valence electrons are transferred	20)	A) C-N C) H-H 2.2
	(ionic, because valence electrons are transferred		1.7
	C) ionic, because valence electrons are shared		B) S-CI Greafest END Si-O 1.9 3.4
	D) covalent, because valence electrons are shared		

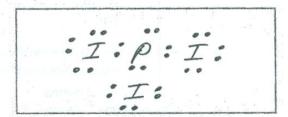
12) In the box below, draw the electron-dot (Lewis) structure of an atom of phosphorus.



13) In the box below, draw the electron-dot (Lewis) structure of an atom of iodine.



14) In the box below, draw the electron-dot (Lewis) structure of phosphorus tri-iodide (a covalent compound).



15) In the box below, draw the electron-dot (Lewis) structure of carbon disulfide (a covalent compound).

