As the O t O t	ete the sentence regarding the energy levels of an electron in the hydrogen atom. principal quantum number increases, the spacing between successive energy levels increases the spacing between successive energy levels decreases the spacing between successive energy levels remains constant the energy levels remain degenerate
r	of these atoms have unpaired electrons? oxygen magnesium nitrogen
3 4 point How m O 4 O 6	nts nany total electrons are in the oxide anion? 4
4 4 point The me compo	nts etal Ca and the nonmetal Br form an ionic bond. What is the formula for this ionic
5 4 points	Ca ₃ Br ₂ CaBr CaBr wits um (Sr) and chlorine (CI) come together to make a bond. What type of compound ed and what is its formula?
6 4 poin	Covalent, ${\rm SrCl_2}$ Covalent, ${\rm Sr_2Cl_2}$ onic, ${\rm SrCl}$ onic, ${\rm SrCl_2}$
iron(III) O F O F	What is the formula of this ionic compound?
compo O G O G	(II) forms an ionic compound with hydroxide. What is the formula for this und?
8 4 poin What is	To(OH) $_2$ This is the formula for magnesium phosphate? Mg_3PO_4 $Mg_3(PO_3)_2$ $Mg_3(PO_4)_2$
9 4 poin What is	${\rm Mg(PO_4)_2}$ ${\rm MgPO_4}$ ats sthe formula for sodium phosphite? ${\rm Na_3PO_4}$ ${\rm Na_3PO_3}$
O N O N O N O N What is	${ m Na_2PO_3}$ ${ m Na(PO_3)_3}$ Ints Is the name of ${ m Na_2S?}$ Idisodium sulfide
	sodium sulfate sodious sulfous sodium sulfide disodium sulfurous sodium sulfite
shell ar	ared to a nonmetal in the same period, a metal is more likely to its valence and form a fill, anion fill, cation empty, anion empty, cation
O 1 O 1	the ionic compound with the strongest theoretical ionic bond strength. Nal KF KCI NaF
0 0	the ionic compound with the highest theoretical lattice energy. MgCl ₂ CaBr ₂ Cal ₂ Mgl ₂
select all t	nger ionic bond is typically associated with the ions having
O 2 O 1 O .	nge of atomic radii for small to large atoms is approximately 40 to 5000 Å 1 to 1000 Å 5 to 300 Å 50 to 300 Å
largest O 0 O F	of the following best ranks the neutral elements P, Ge, and O from smallest to atomic radius? Ge < O < P O < P < Ge
17 4 point The sm O a	Ge < P < O O < Ge < P Ints Ints Inallest atomic radius in a particular period will be the Inalkali metal Inalogen Inalogen Inalogen
O r 18 4 poin Which O G	noble gas
19 4 point Which	Oxygen
20 4 point Hydrof describ	Fluoric acid, HF, makes a polar covalent bond. Which of the following best best the bond? There is an unequal sharing of electrons, resulting in a partial negative and partial positive There is an equal sharing of electrons, resulting in a partial negative and partial
21 4 poin	There is an unequal sharing of electrons, resulting in completely neutral charges on each atom There is an equal sharing of electrons, resulting in completely neutral charges on each atom
atoms than the O F	has a higher electron affinity, meaning it attracts the electrons in the bond more ne other atom. What type of bond is this? Metallic Polar covalent onic Pure Covalent
	all the covalent compounds below:
23 4 point Select a	HCI NH ₃ LiBr Ints all the compounds below that have ionic bonds. LiBr
	H ₂ O MgCl ₂ =eCl ₃ NaCl CH ₃ OH
HBr I ₂ LiBr	type of bond is found in each of the following compounds? HBr: covalent 2: covalent LiBr: ionic
O H	HBr: ionic 2: covalent LiBr: covalent HBr: ionic 2: covalent LiBr: ionic HBr: ionic HBr: covalent 2: ionic
25 4 poin What a HCI Br ₂ KCI	LiBr: covalent Ints Are the bonds in the following molecules? HCI: ionic
) H	Br ₂ : covalent KCI: covalent HCI: ionic Br ₂ : ionic KCI: covalent HCI: covalent

Br₂: covalent

Br₂: covalent

KCl: ionic

HCl: ionic

KCI: ionic

HW04 - Introduction to Compounds