1.	Which element reacts with oxygen to form ionic bonds?			9. Which compound contains both ionic and covalent bonds?					
	A) calcium B) hydrogen		A) CaCO3		B) PCl ₃				
	C) chlorine D) nitrogen		C) MgF ₂		D) CH ₂ O				
2.	Which element forms an ionic compound when it reacts with lithium?			10. Which sample contains particles in a rigid, fixed, geometric pattern?					
	A) K B) Fe C	b) Kr D) Br		A) CO ₂ (a	ıq)	B) H	Cl(g)		
3.	An ionic compound is formed when there is a reaction between the elementsA) strontium and chlorineB) hydrogen and chlorineC) nitrogen and oxygenD) sulfur and oxygen		C) $H_2O(\ell)$		D) K	D) KCI(s)			
			transferred from one atom to another?						
			A) covalent B) ionic						
			C) hydrogen			D) metallic			
			12. Which formula represents an ionic compound?						
4.	The bonds in BaO are best described as			A) NaCl	B) N ₂ O	C) HCl	D) H ₂ O		
	 A) covalent, because valence electrons are shared B) covalent, because valence electrons are transferred C) ionic, because valence electrons are shared D) ionic, because valence electrons are transferred 		13.	13. Which compound contains ionic bonds?					
				A) NO	B) NO ₂	C) CaO	D) CO ₂		
			14. Which kind of compound generally results when nonmetal atoms chemically combine with metal						
5.	 When sodium and fluorine combine to produce the compound NaF, the ions formed have the same electron configuration as atoms of A) argon, only B) neon, only C) both argon and neon 			atoms?					
				A) hydrog	gen	B) io	nic		
			15	Which als		D) III	forming on ionic hand	ი	
			15. Which elements combine by forming an ionic bond?						
			A) sodium and potassium B) sodium and oxygon						
	D) neither argon nor neon			C) carbon	n and oxyge	en			
6.	Which substance contains bonds that involved the transfer of electrons from one atom to another?A) CO₂ B) NH₃ C) KBr D) Cl₂			D) carbon	n and sulfur				
			16. When a reaction occurs between atoms with ground-state electron configurations of 2-1 and 2-7,						
								7.	Which type of bond results when one or more valence electrons are transferred from one atom to another?A) a hydrogen bondB) an ionic bondC) a nonpolar covalent bondD) a polar covalent bond
	A) polar (C) metall	ic	B) no	npolar covalent					
17 Which type of bond is formed when an atom of									
potassium transfers an electron to a bromine atom?									
		A) metall	ic	B) io	nic				
8.	Which type of bond is found in sodium bromide?			C) nonpo	lar covalen	t D) po	olar covalent		
	A) covalentC) ionic	B) hydrogenD) metallic							

- 18. Element X is in Group 2 and element Y is in Group17. What happens when a compound is formedbetween these two atoms?
 - A) X loses electrons to Y to form an ionic bond.
 - B) X loses electrons to Y to form a covalent bond.
 - C) X gains electrons from Y to form an ionic bond.
 - D) X gains electrons from Y to form a covalent bond.
- 19. Which atom will form an ionic bond with a Br atom?

A) N B) Li C) O D) C

- 20. When ionic bonds are formed, metallic atoms tend to
 - A) lose electrons and become negative ions
 - B) lose electrons and become positive ions
 - C) gain electrons and become negative ions
 - D) gain electrons and become positive ions
- 21. Which compound contains both ionic and covalent bonds?
 - A) HBrB) CBr4C) NaBrD) NaOH
- 22. As sodium reacts with fluorine to form the compound NaF, each sodium atom will
 - A) gain 1 electron B) gain 2 electrons
 - C) lose 1 electron D) lose 2 electrons

- 23. Which compound is ionic?
 - A) HClB) CaCl2C) SO2D) N2O
- 24. Which electron-dot diagram best represents a compound that contains both ionic and covalent bonds?

- 25. When a metal atom combines with a nonmetal atom, the nonmetal atom will
 - A) lose electrons and decrease in size
 - B) lose electrons and increase in size
 - C) gain electrons and decrease in size
 - D) gain electrons and increase in size