

## Chemistry Chapter 7: Please do not write on this test

True/. Indica		ise whether the statement is true or false.			,			•	
<i>'</i>	. 1.	. A cation is a negatively charged atom	· ,				-		
	2.	. In an ionic bond, two cations can bond	d together to	form a compo	und.		•		
	3.	. When an atom gains electrons, it beco	mes positiv	ely charged.					
	4.	. Metallic elements tend to form cation	s rather than	anions.				•	
	5.	. An ionic bond is an electrostatic force	that holds t	ogether opposi	tely cha	rged atoms	in a co	mpoun	ıd.
	6,	. A crystal lattice is a three-dimensiona negative ions surrounded by positive i	l structure fo	ormed by positi	ive ions	surrounded	by ne	gative i	ons and
	7.	Elements in the s- or p-blocks general can have more than one possible oxide	ly have only ation numbe	one common or.	oxidation	number, v	while d	l-block	element
	8.	. A metallic bond is the attraction of a r	netallic catio	on for delocaliz	zed elect	rons.			
		Choice se choice that best completes the stateme	nt or answei	rs the question.			<b>y</b>		
	9.	. Which ion is this atom most likely to f	form?					/	
				÷				· · · · · · · · · · · · · · · · · · ·	
		Is 2s 2p	38	· .	•			:	
		a. Na <sup>+</sup> b. Na <sup>-</sup>	c. d.	Ne <sup>-</sup> Mg <sup>+</sup>					
?	10.	Which is described as the force holdin a. cation b. chemical bond	g two atoms c. d.	together? formula unit lattice			•		
<del></del>	11.	Which is the charge that results when a. +2 b3	oxygen beco c. d.	mes an ion? +3 -2	·		. `		
	12.	e e e e e e e e e e e e e e e e e e e			ions?				

d.

CaBr<sub>2</sub>

b.

Ca, Br,

## Completion

Complete each statement.

24.	Chemical bond formation may	take place due to the interaction between a(n	) ' '	and an
	anion		· ———	

25. An ionic bond results due to the \_\_\_\_\_\_ attraction between two oppositely charged ions.

26. The name of the anion ClO<sub>4</sub> is \_\_\_\_\_.

27. In the electron sea model, it is proposed that all the metal atoms in a metallic solid contribute their electrons to form a sea of electrons.

28. The name of the anion PO<sub>4</sub><sup>3-</sup> is \_\_\_\_\_

## Part A. Name the following compounds

- 29.  $P_2O_5$
- 30. AgClO<sub>3</sub>
- 31. SnCl<sub>4</sub>
- 32.  $Cu(HCO_3)_2$
- 33.  $Pb_3(PO_4)_4$
- 34.  $Mg(NO_2)_2$
- 35. CaCO<sub>3</sub>
- 36.  $(NH_4)_2SO_4$

## Part B. Write the formulas for the following compounds

- 37. Calcium nitrate
- 38. Silver Acetate
- 39. Ammonium Carbonate
- 40. Barium Hydrogen carbonate
- 41. Potassium Nitrate
- 42. Iron III hydroxide
- 43. Silver chlorate
- 44. Nickel II Oxalate
- 45. Chromium II phosphate
- 46. Sodium Sulfate

