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Chemistry IV - V Practice Quest

Block:

This practice test is designed to help you determine what concepts you DO know and more importantly what
concepts you DO NOT know!

Go through the practice test THREE times:

(1) On your own (2) With your notes

(3) With another student

/25







Each time, if you cannot answer a question, draw a circle around it to identify that you should review this concept when preparing for the test.

- Elements are held together by chemical bonds. Which of the following is not an event that produces a chemical bond?
 - a. Two atoms come together and share an electron v

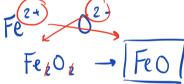
b. One atom gains an electron from another atom \ c.) Two atoms come together to gain an electron

d. One atom loses an electron to another atom $\sqrt{}$

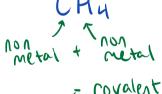
ionic bond

- 2. Which of the following is the correct formula for iron (II) oxide?
 - a. Fe₂O b. FeO

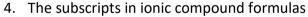
- c. FeO₂
- d. Fe₂O₂



- 3. The following molecule has one carbon atom (light) and four hydrogen atoms (dark). The molecule shown is
 - a.) A molecular compound
 - b. An ionic compound
 - c. A molecular atom
 - d. An ionic atom





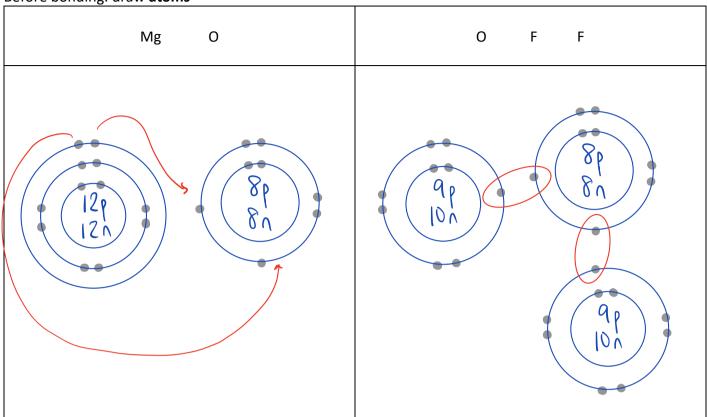


- a. Identify the total number of atoms in the element
- b. Identify the definite proportions of elements in the compound
 - c. Identify the types of elements in the compound
- d. Identify the definite proportions of molecules in the element
- 5. The roman numeral in a name represents
 - The number of molecules in the compound
 - b. The charge of the polyatomic ion
 - c. The charge of the multivalent ion
 - d. The charge of the compound
- 6. Which of the following is a proper rule for naming ionic compounds?
 - a. The non-metal ion's name always ends with the suffix "-ide"
 - b . The chemical name of an ionic compound always has three parts x
 - c. The second part of the chemical name is always a positive ion x
 - d. The metal ion's name always ends with the suffix "-ide X

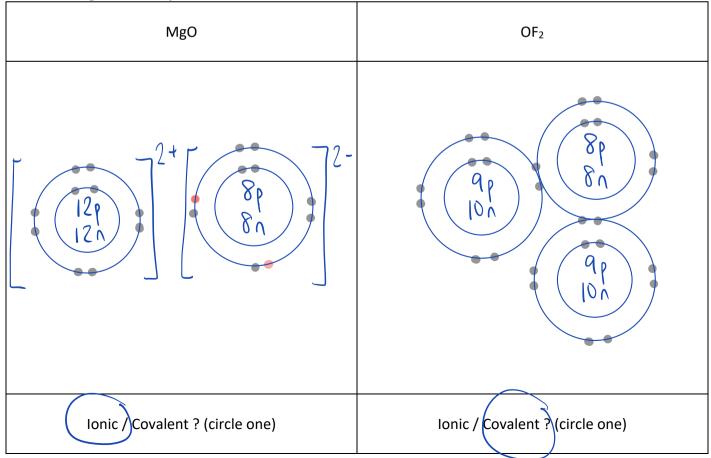
Short Answer

7. Draw Bohr models for the following (5 marks)

Before bonding: draw atoms



After bonding: draw compounds/molecules



8. Complete the following table identifying the name, formula, or ion (4 marks)

Formula	Name	Positive Ion	Negative Ion
Caso4	Calcium sulphate	Ca ²⁺	5042-
KBr	Potassium bromide	K*	Br -
CuClz	Copper (II) chloride	Cu²+	Cl -

Ω	Name the following compounds	/ [marke
9.	maine the following combounds	. 13	HIGHES

а	NaBr

b. Sc(OH)₃

c. V(SO₄)₂

Covalent!

d. N₃Cl

e. CaCO₃

Scondium hydroxide

Vanadium (IV) sulfate

trinitrogen monochloride

Calcium Carbonate

10. Write the formula for the following compounds (5 marks)

- a. Silver phosphate
- b. Sulfur tribromide
- c. Tin (IV) sulfide
- d. Titanium (IV) cyanide
- e. Potassium permanganate

Agz PO4

SBr 3

SnySyz - SnS2

Ti (CN)4

KMnO4