Name:	Date:

## **Chapter 7 Quiz**

**Part A:** Multiple Choice

Circle the letter beside the answer that best answers the question.

- 1. The chemical formula for glucose, a sugar, is  $C_6H_{12}O_6$ . Which of the following is true about glucose?
  - A. Glucose is an ionic compound.
  - There are 6 atoms in one molecule of glucose.
  - C. The formula for glucose can also be written as  $CH_2O$ .
  - D. There are 6 atoms of carbon in a molecule of glucose.
- 2.  $CO_3^{2-}$  is an example of which of the following?
  - A. polyatomic ion
  - B. ionic compound
  - C. covalent compound
  - D. multivalent element
- 3. What is the charge on Cu in copper(I) chloride?

+1Α.

C. 0

 $B_{\cdot} -1$ 

D. 2

- 4. Which of the following is true about compounds?
  - They are not pure substances.
  - They have properties similar to the elements that make them up.
  - C. They can be physically separated into the elements that make them up.
  - D. They are made by chemically combining two or more elements in fixed proportions.
- 5. Which of the following statements is true about ionic and covalent bonds?
  - Both types of bonds involve the transfer of electrons.
  - Ionic bonds form compounds that have low melting points.
  - C. Ionic bonds involve the transfer of electrons but covalent bonds involve sharing electrons.
  - D. Ionic bonds are formed between two non-metals and covalent bonds are formed between two metals.
- 6. What particles in an atom are responsible for bonding?

A. protons

C. neutrons

B. nucleus

D. electrons

CHAPTER Name:	Date:
Chapter 7 Quiz (continued)	

## P

Part B: Chemical Formulas and Naming
7. Determine if the following compounds are binary ionic, ionic with multivalent elements, ionic with polyatomic ions, or molecular. Then, write the chemical name
A. KNO <sub>3</sub> B. CaBr <sub>2</sub> C. CuCl <sub>2</sub> D. Si <sub>3</sub> N <sub>4</sub> E. Pb(CrO <sub>4</sub> ) <sub>2</sub>
8. Determine if the following compounds are binary ionic, ionic with multivalent elements, ionic with polyatomic ions, or molecular. Then, write the chemical form
A. dichlorine heptoxide
<ul><li>Part C: Short Answer</li><li>9. You test an unknown compound and find out it conducts electricity when dissolv in water.</li><li>a. What type of compound is it?</li></ul>
b. What are two other properties you would expect this compound to exhibit? Wh
10. Both CaCl <sub>2</sub> and NaCl contain chloride ions. Explain why two chloride ions are needed to make the compound CaCl <sub>2</sub> , while only one chloride ion is needed to make the compound NaCl.