

Directions: Answer the following question(s).

- 1 Using the fictional periodic table provided at the link below and your knowledge of nomenclature rules to determine if EACH of the following substances is ionic, covalent or acid. Make sure to specify the item letter with each response.

[https://drive.google.com/file/d/1sTiKeP\\_ZpGzJdSS4yll1iXXCe7-FtZ0K/view](https://drive.google.com/file/d/1sTiKeP_ZpGzJdSS4yll1iXXCe7-FtZ0K/view)

- a.  $\text{H}_2\text{SO}_3$
- b.  $\text{G}_4\text{C}_3$
- c.  $\text{PO}_3$
- d.  $\text{H}_2\text{St}$
- e.  $\text{Vi}_2\text{O}_7$

- 2 Using the fictional periodic table provided at the link below and your knowledge of nomenclature rules to **write the name** for the following compound

[https://drive.google.com/file/d/1sTiKeP\\_ZpGzJdSS4yll1iXXCe7-FtZ0K/view](https://drive.google.com/file/d/1sTiKeP_ZpGzJdSS4yll1iXXCe7-FtZ0K/view)



- A. hydronium solarium onionide
- B. hydrosloric acid
- C. dihydronium solariumtrionionide
- D. slorous acid
- E. hydronium (II) solarite

- 3 Using the fictional periodic table provided at the link below and your knowledge of nomenclature rules to **write the name** for the following compound

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- A. tetragalvorn trichorzide
- B. galvorn chorzium
- C. galvorn chorzide
- D. galvorn chorzic acid
- E. galvorn (IV) chorzide

- 4 Using the fictional periodic table provided at the link below and your knowledge of nomenclature rules to **write the name** for the following compound

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- A. hydronium slothium
- B. hydroslothic acid
- C. dihydronium slothide
- D. slothic acid
- E. hydronium (II) slothide

Directions: Answer the following question(s).

- 5 Using the fictional periodic table provided at the link below and your knowledge of nomenclature rules to **write the name** for the following compound

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- A. divibranium heptaonionide
- B. vibranium (II) onionide
- C. vibranium (VII) onionide
- D. vibranium onionic acid
- E. vibranium onionide

- 6 Using the fictional periodic table provided at the link below and your knowledge of nomenclature rules to **write the name** for the following compound

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- 7 Using the fictional periodic table provided at the link below and your knowledge of nomenclature rules to determine if EACH of the following substances is ionic, covalent or acid. Make sure to specify the item letter with each response.

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- a. vibranium (VII) onionide
- b. nuclic acid
- c. jellium nuclide
- d. dislothium hexaionide

- 8 Using the fictional periodic table provided at the link below and your knowledge of nomenclature rules to **write the chemical formula** for the following compound

[https://drive.google.com/file/d/1sTiKeP\\_ZpGzJdSS4yll1iXXCe7-FtZ0K/view](https://drive.google.com/file/d/1sTiKeP_ZpGzJdSS4yll1iXXCe7-FtZ0K/view)

**nuclic acid**

- 9 Using the fictional periodic table provided at the link below and your knowledge of nomenclature rules to **write the chemical formula** for the following compound.

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**dislothium hexaionide**

- A.  $\text{Stlo}$
- B.  $\text{St}_6\text{lo}_2$
- C.  $\text{Stlo}_2$
- D.  $\text{St}_2\text{lo}_6$

- 10 Using the fictional periodic table provided at the link below and your knowledge of nomenclature rules to **write the chemical formula** for the following compound.

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**hydroenergic acid**

Directions: Answer the following question(s).

- 11 Using the fictional periodic table provided at the link below and your knowledge of nomenclature rules to **write the chemical formula** for the following compound.

[https://drive.google.com/file/d/1sTiKeP\\_ZpGzJdSS4yIl1iXXCe7-FtZ0K/view](https://drive.google.com/file/d/1sTiKeP_ZpGzJdSS4yIl1iXXCe7-FtZ0K/view)

**jellium nuclide**

- A. JeN
- B. Je<sub>3</sub>N
- C. JeN<sub>3</sub>
- D. Je<sub>3</sub>NO<sub>3</sub>
- E. Je(NO<sub>3</sub>)<sub>3</sub>

- 12 Using the fictional periodic table provided at the link below and your knowledge of nomenclature rules to **write the chemical formula** for the following compound.

[https://drive.google.com/file/d/1sTiKeP\\_ZpGzJdSS4yIl1iXXCe7-FtZ0K/view](https://drive.google.com/file/d/1sTiKeP_ZpGzJdSS4yIl1iXXCe7-FtZ0K/view)

**Randomonium (IV) calculite**

- A. Rd<sub>6</sub>(CcO<sub>2</sub>)
- B. Rd(CcO<sub>2</sub>)<sub>4</sub>
- C. Rd<sub>4</sub>(CcO<sub>2</sub>)
- D. RdCc<sub>4</sub>
- E. Rd(CcO<sub>2</sub>)<sub>6</sub>

- 13 Using the image below which of the following pairs of elements would form an **ionic bond**?

5 <b>B</b> Boron 10.81 2.0	6 <b>C</b> Carbon 12.01 2.5	7 <b>N</b> Nitrogen 14.01 3.0	8 <b>O</b> Oxygen 16.00 3.5	9 <b>F</b> Fluorine 19.00 4.0
13 <b>Al</b> Aluminum 26.98 1.5	14 <b>Si</b> Silicon 28.09 1.8	15 <b>P</b> Phosphorus 30.97 2.1	16 <b>S</b> Sulfur 32.06 2.5	17 <b>Cl</b> Chlorine 35.45 3.0
31 <b>Ga</b> Gallium 69.72 1.6	32 <b>Ge</b> Germanium 72.59 1.8	33 <b>As</b> Arsenic 74.92 2.4	34 <b>Se</b> Selenium 78.96 2.8	35 <b>Br</b> Bromine 79.90 2.8
49 <b>In</b> Indium 114.82 1.7	50 <b>Sn</b> Tin 118.69 1.8	51 <b>Sb</b> Antimony 121.75 1.9	52 <b>Te</b> Tellurium 127.60 2.1	53 <b>I</b> Iodine 126.90 2.5
81 <b>Tl</b> Thallium 204.37 1.8	82 <b>Pb</b> Lead 207.2 1.8	83 <b>Bi</b> Bismuth 208.98 1.9	84 <b>Po</b> Polonium (209) 2.0	85 <b>At</b> Astatine (210) 2.2

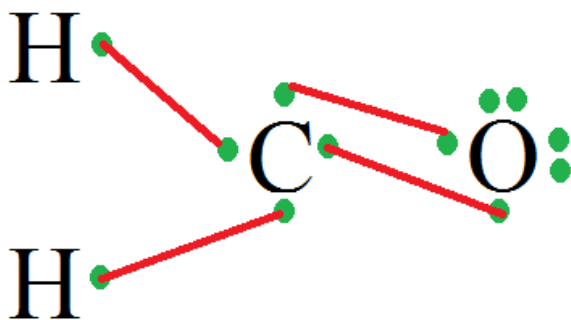
- A. S and Se
- B. C and S
- C. Ge and I
- D. P and F

- 14 Which of the following are correct regarding properties of ionic and covalent compounds?

- A. Ionic compounds have strong bonds and low melting points
- B. covalent compounds have weak bonds and high melting points
- C. ionic compounds form electrolytes when dissolved in water
- D. covalent compounds tend to be solid at room temperature

Directions: Answer the following question(s).

15



Using the image above select the **ALL** of the responses below that are correct

- A. hydrogen (H) is making two single bonds
- B. hydrogen (H) is making one single bonds
- C. oxygen (O) is making two single bonds
- D. oxygen (O) is making one double bond
- E. oxygen (O) has two lone pairs of electrons
- F. oxygen (O) has four lone pairs of electrons
- G. oxygen (O) has eight lone pairs of electrons
- H. carbon (C) is forming 4 single bonds
- I. carbon (C) is forming 2 double bonds