

<p>1</p> <p>A</p>	<p>Which of the following household items is basic?</p> <p>A. baking soda B. grapes C. bananas D. water</p>						
<p>2</p> <p>A</p>	<p>How many protons does an atom of silver contain?</p> <p>A. 47 B. 108 C. 61 D. 60</p>						
<p>3</p> <p>B</p>	<p>Which of the following compounds are organic?</p> <table border="1" data-bbox="305 646 721 802"> <tbody> <tr> <td>I</td> <td>Na_2CO_3</td> </tr> <tr> <td>II</td> <td>$\text{CH}_3\text{CH}_2\text{CH}_3$</td> </tr> <tr> <td>III</td> <td>CH_3OH</td> </tr> </tbody> </table> <p>A. I and II only B. II and III only C. I, II, and III D. None of these compounds is organic.</p>	I	Na_2CO_3	II	$\text{CH}_3\text{CH}_2\text{CH}_3$	III	CH_3OH
I	Na_2CO_3						
II	$\text{CH}_3\text{CH}_2\text{CH}_3$						
III	CH_3OH						
<p>4</p> <p>B</p>	<p>An atom is found to have seven valence electrons. To which family of elements in the periodic table does this atom belong?</p> <p>A. noble gases B. halogens C. alkaline earth metals D. alkali metals</p>						
<p>5</p> <p>D</p>	<p>What is the nucleus of any atom, except hydrogen, made up of?</p> <p>A. only neutrons B. only protons C. equal numbers of electrons and protons D. neutrons and protons</p>						
<p>6</p> <p>A</p>	<p>What is the name of the compound Fe_2O_3?</p> <p>A. iron(III) oxide B. iron oxide C. iron(II) oxide D. iron(II) trioxide</p>						
<p>7</p> <p>C</p>	<p>Which of the following is a property of a base?</p> <p>A. It has a sour taste. B. It turns litmus paper red. C. It tastes bitter. D. It has a pH less than 7.</p>						

<p>8</p> <p>D</p>	<p>What is the name of the compound PbS_2?</p> <p>A. lead sulphide B. lead disulphide C. lead(II) sulphide D. lead(IV) sulphide</p>
<p>9</p> <p>B</p>	<p>Which compound has no covalent bonds?</p> <p>A. Na_2SO_4 B. KCl C. $KClO_3$ D. CH_3Cl</p>
<p>10</p> <p>D</p>	<p>What is the correct formula for the compound that contains magnesium and phosphate ions?</p> <p>A. $MgPO_4$ B. Mg_3PO_4 C. $Mg_2(PO_4)_3$ D. $Mg_3(PO_4)_2$</p>
<p>11</p> <p>A</p>	<p>Which name and formula match correctly?</p> <p>A. magnesium fluoride, MgF_2 B. sodium sulphide, NaS C. aluminum iodide, $Al(IO)_3$ D. iron(II) oxide, FeO_2</p>
<p>12</p> <p>D</p>	<p>Which is the formula for aluminum carbonate?</p> <p>A. AlC_3 B. $AlCO_3$ C. Al_2C_3 D. $Al_2(CO_3)_3$</p>
<p>13</p> <p>C</p>	<p>Which of the following sets of coefficients will balance the following skeleton equation?</p> $AlCl_3 + K \rightarrow KCl + Al$ <p>A. 1, 2, 1, 2 B. 2, 6, 6, 1 C. 1, 3, 3, 1 D. 1, 2, 3, 1</p>
<p>14</p> <p>C</p>	<p>What is the charge on the plutonium atom (Pu) in the compound Pu_2O_7?</p> <p>A. 3+ B. 4+ C. 5+ D. 6+</p>

<p>15</p> <p>A</p>	<p>What are the coefficients, from left to right, that correctly balance the following equation?</p> $\underline{\quad} \text{Sn}(\text{NO}_2)_4 + \underline{\quad} \text{K}_3\text{PO}_4 \rightarrow \underline{\quad} \text{KNO}_2 + \underline{\quad} \text{Sn}_3(\text{PO}_4)_4$ <p>A. 3, 4, 12, 1 B. 3, 3, 6, 1 C. 6, 3, 4, 2 D. 6, 4, 2, 12</p>
<p>16</p> <p>B</p>	<p>What is the name of PbO_2?</p> <p>A. lead(II) dioxide B. lead(IV) oxide C. lead dioxide D. phosphorus boron oxide</p>
<p>17</p> <p>C</p>	<p>What is the correct formula for aluminum hydroxide?</p> <p>A. Al_3OH B. AlOH_3 C. $\text{Al}(\text{OH})_3$ D. $\text{Al}(\text{OH})_2$</p>
<p>18</p> <p>A</p>	<p>What are substances with a pH above 7 considered to be?</p> <p>A. basic B. acidic C. salty D. neutral</p>
<p>19</p> <p>A</p>	<p>Which is <i>not</i> a characteristic of acids?</p> <p>A. bitter taste B. turn litmus red C. react with bases to form salts D. react with active metals to form H_2 gas</p>
<p>20</p> <p>C</p>	<p>What are the coefficients, from left to right, that correctly balance the following equation?</p> $\underline{\quad} \text{C}_2\text{H}_6 + \underline{\quad} \text{O}_2 \rightarrow \underline{\quad} \text{CO}_2 + \underline{\quad} \text{H}_2\text{O}$ <p>A. 1, 3, 2, 3 B. 1, 7, 2, 3 C. 2, 7, 4, 6 D. 2, 3, 4, 6</p>

Name: _____

21

Write the formula or name of the following compounds.

- (a) iron(III) chloride FeCl₃
- (b) ammonium phosphate (NH₄)₃PO₄
- (c) dinitrogen trisulphide N₂S₃
- (d) P₄O₁₀ tetra phosphorous deca oxide
- (e) Na₂SO₄ Sodium sulfate

