

## Inorganic Nomenclature

1.- Write the formula or give the name of the following halides or hydrides:

- |                          |                    |
|--------------------------|--------------------|
| a) Aluminium chloride    | k) $\text{PBr}_5$  |
| b) Calcium fluoride      | l) $\text{CCl}_4$  |
| c) Rubidium bromide      | m) $\text{HF}$     |
| d) Mercury (II) hydride  | n) $\text{NH}_3$   |
| e) Tin (II) iodide       | o) $\text{CoI}_2$  |
| f) Ammonium chloride     | p) $\text{MgF}_2$  |
| g) Palladium (IV) iodide | q) $\text{PtBr}_4$ |
| h) Antimony pentabromide | r) $\text{FeH}_2$  |
| i) Silane                | s) $\text{KCl}$    |
| j) Sulphur hexafluoride  | t) $\text{CdI}_2$  |

2.- Write the formula or give the name of the following oxides or sulphides:

- |                               |                            |
|-------------------------------|----------------------------|
| a) Diboron trioxide           | k) $\text{As}_2\text{O}_5$ |
| b) Diphosphorus pentasulphide | l) $\text{Cl}_2\text{O}_7$ |
| c) Diantimony trioxide        | m) $\text{TeO}_3$          |
| d) Selenium dioxide           | n) $\text{SiO}_2$          |
| e) Carbon monoxide            | o) $\text{N}_2\text{O}_4$  |
| f) Titanium (IV) oxide        | p) $\text{BaO}$            |
| g) Strontium oxide            | q) $\text{Rb}_2\text{O}$   |
| h) Ammonium sulphide          | r) $\text{CrO}_3$          |
| i) Potassium selenide         | s) $\text{MnO}_2$          |
| j) Magnesium telluride        | t) $\text{Pb}_3\text{O}_4$ |

3.- Write the formula or give the name of the following ternary substances:

- a) Beryllium hydroxide
- b) Nitric acid
- c) Lithium chlorate
- d) Tin (II) hydroxide
- e) Sodium hypochlorite
- f) Silver carbonate
- g) Calcium phosphate
- h) Barium hydroxide
- i) Ammonium perchlorate
- j) Nitrous acid
- k)  $\text{ZnSO}_4$
- l)  $\text{Co(OH)}_3$
- m)  $\text{H}_2\text{SO}_2$
- n)  $\text{KClO}_2$
- o)  $\text{Pt(OH)}_4$
- p)  $\text{Na}_3\text{PO}_4$
- q)  $\text{HgClO}_3$
- r)  $\text{H}_2\text{CO}_3$
- s)  $\text{CuOH}$
- t)  $(\text{NH}_4)_2\text{SO}_3$

4.- Write the formula or give the name of the following chemical substances:

- |                        |                                  |
|------------------------|----------------------------------|
| a) Potassium fluoride  | k) FeO                           |
| b) Nickel (II) oxide   | l) HgCl <sub>2</sub>             |
| c) Silver nitrate      | m) PF <sub>3</sub>               |
| d) Sulphur trioxide    | n) N <sub>2</sub> O <sub>5</sub> |
| e) Barium hydroxide    | o) MgBr <sub>2</sub>             |
| f) Caesium hydride     | p) Cu(OH) <sub>2</sub>           |
| g) Aluminium hydroxide | q) SiH <sub>4</sub>              |
| h) Hydroiodic acid     | r) B(OH) <sub>3</sub>            |
| i) Rubidium sulphide   | s) NH <sub>3</sub>               |
| j) Diarsenic trioxide  | t) HClO                          |

5.- Write the formula of these chemical substances:

- |                       |                           |
|-----------------------|---------------------------|
| a) Beryllium chloride | k) Rubidium iodide        |
| b) Lithium oxide      | l) Sulphur hexafluoride   |
| c) Magnesium hydride  | m) Potassium perchlorate  |
| d) Boron trifluoride  | n) Zinc oxide             |
| e) Tin (II) hydroxide | o) Platinum tetrachloride |
| f) Chlorous acid      | p) Nitric acid            |
| g) Sodium carbonate   | q) Silver oxide           |
| h) Iron (II) sulphate | r) Stibane                |
| i) Lead (IV) oxide    | s) Calcium hydroxide      |
| j) Mercury dibromide  | t) Hydrochloric acid      |

6.- Give the name of the following chemical substances:

- a) PH<sub>3</sub>
- b) CoO
- c) SrH<sub>2</sub>
- d) CF<sub>4</sub>
- e) Pt(OH)<sub>2</sub>
- f) H<sub>2</sub>SO<sub>2</sub>
- g) NaNO<sub>2</sub>
- h) Ca(ClO<sub>3</sub>)<sub>2</sub>
- i) AgI
- j) PdO<sub>2</sub>
- k) Al(OH)<sub>3</sub>
- l) BaBr<sub>2</sub>
- m) HIO<sub>4</sub>
- n) Au<sub>2</sub>O
- o) CdCl<sub>2</sub>
- p) H<sub>2</sub>S
- q) MgCO<sub>3</sub>
- r) N<sub>2</sub>O<sub>4</sub>
- s) CuI<sub>2</sub>
- t) H<sub>2</sub>O<sub>2</sub>

7.- Write the formula of the following chemical substances:

- |                        |                          |
|------------------------|--------------------------|
| a) Calcium chloride    | k) Sodium carbonate      |
| b) Potassium sulphate  | l) Barium hydroxide      |
| c) Copper (II) hydride | m) Cadmium oxide         |
| d) Boron trifluoride   | n) Nickel trichloride    |
| e) Lead (II) hydroxide | o) Mercury (II) hydride  |
| f) Hydrofluoric acid   | p) Silver phosphate      |
| g) Iron (II) sulphide  | q) Diarsenic pentaoxide  |
| h) Tin (IV) oxide      | r) Gold (III ) iodide    |
| i) Nitric acid         | s) Hydrogen peroxide     |
| j) Rubidium iodide     | t) Platinum tetrabromide |

8.- Give the name of the following chemical substances:

- a)  $\text{NH}_3$
- b)  $\text{CoO}$
- c)  $\text{SrH}_2$
- d)  $\text{Cs}_2\text{SO}_4$
- e)  $\text{Pt}(\text{OH})_2$
- f)  $\text{PF}_3$
- g)  $\text{Ca}(\text{NO}_2)_2$
- h)  $\text{AgI}$
- i)  $\text{PdO}_2$
- j)  $\text{B}(\text{OH})_3$
- k)  $\text{BaBr}_2$
- l)  $\text{HClO}_4$
- m)  $\text{Au}_2\text{O}$
- n)  $\text{CdCl}_2$
- o)  $\text{RbH}$
- p)  $\text{SeO}_3$
- q)  $\text{SbCl}_5$
- r)  $\text{SnO}$
- s)  $\text{HI}$
- t)  $\text{BeO}_2$

9.- Write the formula or give the name of the following chemical substances:

- |                         |                             |
|-------------------------|-----------------------------|
| a) Calcium sulphate     | k) $\text{NH}_3$            |
| b) Boron trifluoride    | l) $\text{SeO}_3$           |
| c) Lead (II) hydroxide  | m) $\text{SrH}_2$           |
| d) Hydrosulphuric acid  | n) $\text{Pt}(\text{OH})_2$ |
| e) Iron (III) oxide     | o) $\text{PF}_3$            |
| f) Nitric acid          | p) $\text{AgNO}_3$          |
| g) Palladium monoxide   | q) $\text{HClO}_4$          |
| h) Mercury (II) hydride | r) $\text{CdCl}_2$          |
| i) Diantimony trioxide  | s) $\text{CoS}$             |
| j) Sodium peroxide      | t) $\text{BeO}_2$           |

10.- Write the formula or give the name of the following chemical substances:

- |                      |                           |
|----------------------|---------------------------|
| a) FeO               | f) Lead (IV) oxide        |
| b) CuH               | g) Phosphorus trifluoride |
| c) AgCl              | h) Aluminium bromide      |
| d) HNO <sub>2</sub>  | i) Carbonic acid          |
| e) CaSO <sub>3</sub> | j) Potassium perchlorate  |

11.- Fill the table :

|    | FORMULA             | Covalent substances  | Common name / Stock |
|----|---------------------|----------------------|---------------------|
| 1  | CF <sub>4</sub>     |                      | -                   |
| 2  | CoO                 |                      |                     |
| 3  | SrH <sub>2</sub>    | -                    |                     |
| 4  | NH <sub>3</sub>     | -                    |                     |
| 5  | Pt(OH) <sub>2</sub> |                      |                     |
| 6  | AgI                 | -                    |                     |
| 7  | SO <sub>2</sub>     |                      | -                   |
| 8  | H <sub>2</sub> Se   |                      |                     |
| 9  | Au <sub>2</sub> O   | -                    |                     |
| 10 | SbCl <sub>5</sub>   |                      | -                   |
| 11 |                     |                      | Potassium oxide     |
| 12 |                     |                      | Sodium hydride      |
| 13 |                     | Boron trifluoride    |                     |
| 14 |                     |                      | Lead (II) hydroxide |
| 15 |                     |                      | Hydrofluoric acid   |
| 16 |                     |                      | Iron (III) sulphide |
| 17 |                     |                      | Tin (IV) oxide      |
| 18 |                     | Mercury dibromide    |                     |
| 19 |                     |                      | Rubidium iodide     |
| 20 |                     | Sulphur hexafluoride |                     |

12.- Write the formula or give the name of the following substances: