

Part I. Write the chemical formulas for the following polyatomic compounds.

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|-------------------------------|--------------------------|----------------------------------|
| 1. Iron (II) Hydroxide        | 2. Iron (III) Phosphate  | 3. Calcium Carbonate             |
| 4. Magnesium Hydrogen Sulfate | 5. Ammonium Nitrate      | 6. Cesium Sulfate                |
| 7. Titanium Carbonate         | 8. Ammonium Chloride     | 9. Ammonium Dihydrogen Phosphate |
| 10. Ammonium Oxide            | 11. Copper (I) Nitrate   | 12. Lithium Sulfate              |
| 13. Silver Phosphate          | 14. Rubidium Carbonate   | 15. Barium Bicarbonate           |
| 16. Hydrogen Sulfate          | 17. Hydrogen Thiosulfate | 18. Magnesium Dichromate         |
| 19. Hydromium Chromate        | 20. Ammonium Silicate    | 21. Hydronium Oxalate            |

Part II. Write the chemical names for the following polyatomic compounds.

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|----------------------------------|----------------------------------|---------------------------------|
| 22. $\text{Ca}(\text{HCO}_3)_2$  | 23. $\text{Fe}(\text{OH})_3$     | 24. $\text{Zn}(\text{HSO}_4)_2$ |
| 25. $\text{MgCO}_3$              | 26. $\text{Fr}_3\text{PO}_4$     | 27. $\text{Pb}(\text{HCO}_3)_2$ |
| 28. $\text{NH}_4\text{Br}$       | 29. $(\text{NH}_4)_3\text{PO}_3$ | 30. $\text{Ag}_2\text{SO}_4$    |
| 31. $\text{Ra}(\text{NO}_3)_2$   | 32. $\text{Sc}(\text{HCO}_3)_3$  | 33. $\text{Sr}(\text{HSO}_4)_2$ |
| 34. $\text{Ti}_3(\text{PO}_4)_2$ | 35. $\text{KOH}$                 | 36. $\text{Ca}(\text{OH})_2$    |
| 37. $\text{CaCO}_3$              |                                  |                                 |

**Answer List**

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|--|--------------------------------------|--|
| 1. $\text{Fe}(\text{OH})_2$              | 2. $\text{FePO}_4$                   | 3. $\text{CaCO}_3$                               |
| 4. $\text{Mg}(\text{HSO}_4)_2$           | 5. $\text{NH}_4\text{NO}_3$          | 6. $\text{Cs}_2\text{SO}_4$                      |
| 7. $\text{TiCO}_3$                       | 8. $\text{NH}_4\text{Cl}$            | 9. $\text{NH}_4\text{H}_2\text{PO}_4$            |
| 10. $(\text{NH}_4)_2\text{O}$            | 11. $\text{CuNO}_3$                  | 12. $\text{Li}_2\text{SO}_4$                     |
| 13. $\text{Ag}_3\text{PO}_4$             | 14. $\text{Rb}_2\text{CO}_3$         | 15. $\text{Ba}(\text{HCO}_3)_2$                  |
| 16. $\text{H}_2\text{SO}_4$              | 17. $\text{H}_2\text{S}_2\text{O}_3$ | 18. $\text{MgCr}_2\text{O}_7$                    |
| 19. $(\text{H}_3\text{O})_2\text{CrO}_4$ | 20. $(\text{NH}_4)_2\text{SiO}_3$    | 21. $(\text{H}_3\text{O})_2\text{C}_2\text{O}_4$ |
| 22. Calcium Bicarbonate                  | 23. Iron (III) Hydroxide             | 24. Zinc Hydrogen Sulfate                        |
| 25. Magnesium Carbonate                  | 26. Francium Phosphate               | 27. Lead (II) Bicarbonate                        |
| 28. Ammonium Bromide                     | 29. Ammonium Phosphate               | 30. Silver Sulfate                               |
| 31. Radium Nitrate                       | 32. Scandium Bicarbonate             | 33. Strontium Hydrogen Sulfate                   |
| 34. Titanium Phosphate                   | 35. Potassium Hydroxide              | 36. Calcium Hydroxide                            |
| 37. Calcium Carbonate                    |                                      |  |