

## Part B: Answers to Part A.

1.	AgCl	35.	Pb(IO <sub>3</sub> ) <sub>4</sub>	69.	HI
2.	CuI <sub>2</sub>	36.	NH <sub>4</sub> ClO <sub>4</sub>	70.	Xe
3.	ZnSO <sub>4</sub>	37.	CrO	71.	Cl <sub>4</sub>
4.	NH <sub>3</sub>	38.	Hg <sub>2</sub> (CN) <sub>2</sub>	72.	LiHCO <sub>3</sub>
5.	SrF <sub>2</sub>	39.	Ca(BrO) <sub>2</sub>	73.	H <sub>2</sub> O
6.	KCN	40.	Br <sub>2</sub>	74.	Ca(CH <sub>3</sub> COO) <sub>2</sub>
7.	Al(NO <sub>3</sub> ) <sub>3</sub>	41.	Sn(MnO <sub>4</sub> ) <sub>4</sub>	75.	CuSCN
8.	Hg <sub>2</sub> S	42.	Al <sub>2</sub> O <sub>3</sub>	76.	Hg <sub>2</sub> (CH <sub>3</sub> COO) <sub>2</sub>
9.	MnO <sub>2</sub>	43.	CaS	77.	AgSCN
10.	K <sub>2</sub> CrO <sub>4</sub>	44.	FeI <sub>3</sub>	78.	ZnCl <sub>2</sub> • 6 H <sub>2</sub> O
11.	KNO <sub>2</sub>	45.	Mg(OH) <sub>2</sub>	79.	Fe <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub>
12.	AgOH	46.	NaIO	80.	KHC <sub>2</sub> O <sub>4</sub>
13.	Pb(NO <sub>3</sub> ) <sub>2</sub>	47.	K <sub>2</sub> O <sub>2</sub>	81.	MgH <sub>2</sub>
14.	Fe(OH) <sub>3</sub>	48.	HBr	82.	Au(NO <sub>3</sub> ) <sub>3</sub>
15.	O <sub>2</sub>	49.	Mg(CN) <sub>2</sub>	83.	LiH <sub>2</sub> PO <sub>4</sub>
16.	SO <sub>3</sub>	50.	Na	84.	Fe <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub>
17.	HCl	51.	Na <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>	85.	Fe(OH) <sub>2</sub>
18.	Al(NO <sub>2</sub> ) <sub>3</sub>	52.	Fe	86.	He
19.	NaNH	53.	HNO <sub>3</sub>	87.	H <sub>2</sub> S
20.	Sn(HCO <sub>3</sub> ) <sub>2</sub>	54.	N <sub>2</sub>	88.	Cd(CH <sub>3</sub> COO) <sub>2</sub>
21.	Fe <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>	55.	Mg(HSO <sub>4</sub> ) <sub>2</sub>	89.	MgSO <sub>4</sub> • 7 H <sub>2</sub> O
22.	Na SCN	56.	Co(MnO <sub>4</sub> ) <sub>2</sub>	90.	UF <sub>4</sub>
23.	CsBrO <sub>4</sub>	57.	HgCl <sub>2</sub>	91.	H <sub>2</sub> CO <sub>3</sub>
24.	H <sub>3</sub> PO <sub>4</sub>	58.	SiO <sub>2</sub>	92.	B(OH) <sub>3</sub>
25.	Na <sub>2</sub> CO <sub>3</sub> • 10 H <sub>2</sub> O	59.	NaClO <sub>2</sub>	93.	Mn(IO <sub>3</sub> ) <sub>2</sub>
26.	Ba(HCO <sub>3</sub> ) <sub>2</sub>	60.	H <sub>2</sub> SO <sub>4</sub>	94.	SrSO <sub>3</sub>
27.	Sn(SO <sub>4</sub> ) <sub>2</sub>	61.	F <sub>2</sub>	95.	Ne
28.	Sr(BrO <sub>3</sub> ) <sub>2</sub>	62.	Na <sub>2</sub> HPO <sub>4</sub>	96.	Fe(CN) <sub>3</sub>
29.	H <sub>2</sub> O <sub>2</sub>	63.	Al <sub>2</sub> S <sub>3</sub>	97.	LiH
30.	NO <sub>2</sub>	64.	Cr <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub>	98.	(NH <sub>4</sub> ) <sub>2</sub> CO <sub>3</sub>
31.	Al(HSO <sub>3</sub> ) <sub>3</sub>	65.	RbNO <sub>2</sub>	99.	XeF <sub>6</sub>
32.	HNO <sub>2</sub>	66.	Nb <sub>2</sub> (SO <sub>4</sub> ) <sub>5</sub>	100.	Ba <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub>
33.	KClO <sub>2</sub>	67.	NH <sub>4</sub> HSO <sub>3</sub>		
34.	Zn <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub>	68.	Be(BrO <sub>2</sub> ) <sub>2</sub>		

**Part D: Answers to Part C.**

- |     |                                 |                       |  |  |                                 |
|-----|---------------------------------|-----------------------|--|--|---------------------------------|
| 1.  | cadmium nitrate tetrahydrate    |                       |  |  | ammonium hypiodite              |
| 2.  | carbon tetrachloride            |                       |  |  | molybdenum (V) chloride         |
| 3.  | copper (II) sulfate             | cupric sulfate        |  |  | sodium hydrogen sulfide         |
| 4.  | magnesium oxide                 |                       |  |  | cesium dihydrogen phosphate     |
| 5.  | sodium cyanide                  |                       |  |  | sodium hydroxide                |
| 6.  | phosphorus pentachloride        |                       |  |  | nickel (II) thiocyanate         |
| 7.  | iron (II) chloride              |                       |  |  | lead (IV) hydrogen sulfate      |
| 8.  | ammonium sulfate                | ferrous nitrate       |  |  | plumbic hydrogen sulfate        |
| 9.  | sulfur dioxide                  |                       |  |  | mercuric nitrate                |
| 10. | copper (I) sulfate              | cuprous sulfate       |  |  | sodium peroxide                 |
| 11. | iron (III) nitrate              | ferric nitrate        |  |  | rubidium hydride                |
| 12. | sodium thiosulfate pentahydrate |                       |  |  | hydrogen phosphate              |
| 13. | potassium oxalate               |                       |  |  | nitrogen triiodide              |
| 14. | rubidium thiocyanate            |                       |  |  | manganese (IV) sulfide          |
| 15. | aluminum phosphate              |                       |  |  | lithium chromate                |
| 16. | potassium carbonate             |                       |  |  | barium hydroxide octahydrate    |
| 17. | sodium phosphate                |                       |  |  | sodium sulfite                  |
| 18. | tin (II) sulfate                | stannous sulfate      |  |  | zinc acetate                    |
| 19. | sodium chromate                 |                       |  |  | hydrogen sulfide                |
| 20. | lead (II) nitrate               | plumbous nitrate      |  |  | ammonium sulfate                |
| 21. | tin (IV) sulfate                | stannic sulfate       |  |  | cesium hydrogen carbonate       |
| 22. | tungsten (VI) fluoride          |                       |  |  | cesium bicarbonate              |
| 23. | sulfur trioxide                 |                       |  |  | calcium perchlorate             |
| 24. | potassium dichromate            |                       |  |  | ammonium chlorite               |
| 25. | lead (IV) oxalate               | plumbic oxalate       |  |  | chromium (II) oxide             |
| 26. | sodium monohydrogen phosphate   |                       |  |  | cesium cyanide                  |
| 27. | tin (IV) carbonate              | stannic carbonate     |  |  | hydrogen fluoride               |
| 28. | gold (III) cyanide              |                       |  |  | hydrogen nitrate                |
| 29. | potassium permanganate          |                       |  |  | manganese (II) oxide            |
| 30. | strontium hydride               |                       |  |  | calcium hydroxide               |
| 31. | potassium hydrogen carbonate    |                       |  |  | cobalt (II) chloride            |
|     |                                 | potassium bicarbonate |  |  | zinc iodite                     |
| 32. | aluminum sulfide                |                       |  |  | platinum (IV) chloride          |
| 33. | copper (II) acetate             | cupric acetate        |  |  | mercury (I) nitrite             |
| 34. | barium thiocyanate              |                       |  |  | hydrogen chloride               |
| 35. | sodium chlorate                 |                       |  |  | chromium (III) oxide            |
| 36. | iron (II) hydroxide             | ferrous hydroxide     |  |  | aluminum hydroxide              |
| 37. | sodium hypobromite              |                       |  |  | ammonium bromate                |
| 38. | hydrogen nitrite                | nitrous acid          |  |  | hydrogen perchlorate            |
| 39. | vanadium (V) sulfide            |                       |  |  | krypton tetrafluoride           |
| 40. | iron (II) hypochlorite          | ferrous hypochlorite  |  |  | barium dichromate               |
| 41. | tin (II) fluoride               | stannous fluoride     |  |  | strontium phosphate             |
| 42. | hydrogen bromide                | hydrobromic acid      |  |  | iron (III) oxide                |
| 43. | zinc nitrite                    |                       |  |  | ammonium monohydrogen phosphate |
| 44. | silver oxalate                  |                       |  |  | sodium acetate                  |
| 45. | potassium acetate               |                       |  |  | hydrogen iodide                 |
| 46. | ammonium hydroxide              |                       |  |  | lead (II) carbonate             |
| 47. | hydrogen sulfate                | sulfuric acid         |  |  | beryllium bromide               |
| 48. | copper (I) sulfide              | cuprous sulfide       |  |  | xenon dioxide                   |
| 49. | mercury (II) dichromate         | mercuric dichromate   |  |  | mercury (I) nitrate             |
| 50. | rubidium iodide                 |                       |  |  | iron (III) acetate              |
|     |                                 |                       |  |  | hydrogen stearate               |
|     |                                 |                       |  |  | mercurous nitrate               |
|     |                                 |                       |  |  | ferric acetate                  |
|     |                                 |                       |  |  | stearic acid                    |
|     |                                 |                       |  |  | plumbous carbonate              |
|     |                                 |                       |  |  | hydriodic acid                  |
|     |                                 |                       |  |  | perchloric acid                 |
|     |                                 |                       |  |  | mercurous nitrite               |
|     |                                 |                       |  |  | hydrochloric acid               |
|     |                                 |                       |  |  | chromic oxide                   |
|     |                                 |                       |  |  | chromous oxide                  |
|     |                                 |                       |  |  | hydrofluoric acid               |
|     |                                 |                       |  |  | nitric acid                     |
|     |                                 |                       |  |  | manganous oxide                 |
|     |                                 |                       |  |  | cobaltous chloride              |