

## Chapter 2

- 36) fluorine – F; chlorine – Cl; bromine – Br; sulfur – S; oxygen – O; phosphorous – P
- 38) As – arsenic; I – iodine; Xe – xenon; He – helium; C – carbon; Si – silicon
- 40) promethium – Pm; technetium – Tc
- 42)
- |                                |                                |
|--------------------------------|--------------------------------|
| a) Six; Be, Mg, Ca, Sr, Ba, Ra | c) Four; Ni, Pd, Pt, Ds        |
| b) Five; O, S, Se, Te, Po      | d) Six; He, Ne, Ar, Kr, Xe, Rn |
- 46)
- |                          |                          |
|--------------------------|--------------------------|
| a) $^{17}_8\text{O}$     | e) $^{131}_{53}\text{I}$ |
| b) $^{37}_{17}\text{Cl}$ | f) $^7_3\text{Li}$       |
| c) $^{60}_{27}\text{Co}$ |                          |
| d) $^{57}_{26}\text{Fe}$ |                          |
- 62)
- |                    |                        |
|--------------------|------------------------|
| a) cesium fluoride | d) manganese(IV) oxide |
| b) lithium nitride | e) titanium(IV) oxide  |
| c) silver sulfide  | f) strontium phosphide |
- 66)
- |                         |                              |
|-------------------------|------------------------------|
| a) dinitrogen tetroxide | c) sulfur dioxide            |
| b) iodine trichloride   | d) diphosphorus pentasulfide |
- 68)
- |                        |                      |
|------------------------|----------------------|
| a) acetic acid         | g) sulfuric acid     |
| b) ammonium nitrite    | h) strontium nitride |
| c) cobalt(III) sulfide | i) aluminum sulfite  |
| d) iodine monochloride | j) tin(IV) oxide     |
| e) lead(II) phosphate  | k) sodium chromate   |
| f) potassium iodate    | l) hypochlorous acid |
- 70)
- |                                 |  |
|---------------------------------|--|
| a) $\text{SF}_2$                | g) $\text{NH}_4\text{C}_2\text{H}_3\text{O}_2$ |
| b) $\text{SF}_6$                | h) $\text{NH}_4\text{HSO}_4$                   |
| c) $\text{NaH}_2\text{PO}_4$    | i) $\text{Co}(\text{NO}_3)_3$                  |
| d) $\text{Li}_3\text{N}$        | j) $\text{Hg}_2\text{Cl}_2$                    |
| e) $\text{Cr}_2(\text{CO}_3)_3$ | k) $\text{KClO}_3$                             |
| f) $\text{SnF}_2$               | l) $\text{NaH}$                                |
- 72)
- |                                  |                     |
|----------------------------------|---------------------|
| a) $(\text{NH}_4)_2\text{HPO}_4$ | g) $\text{HBr}$     |
| b) $\text{Hg}_2\text{S}$         | h) $\text{HBrO}_2$  |
| c) $\text{SiO}_2$                | i) $\text{HBrO}_4$  |
| d) $\text{Na}_2\text{SO}_3$      | j) $\text{KHS}$     |
| e) $\text{Al}(\text{HSO}_4)_3$   | k) $\text{CaI}_2$   |
| f) $\text{NCl}_3$                | l) $\text{CsClO}_4$ |