

Chapter 5

Answers to Questions

1. Lanthanoids
2. Actinoids.
3. (a) The alkaline earth metals (b) the pnictogens
4. (a) The halogens (b) the chalcogens
5. (a) metal (b) semimetal (c) nonmetal
6. (a) semimetal (b) metal (c) nonmetal
7. (a) solid (b) liquid (c) gas
8. (a) solid (b) solid (c) liquid
9. (a) 2 (b) 8 (c) 18
10. (a) 6 (b) 1 (c) 7
11. (a) 2 (b) 7 (c) 3
12. (a) 10 (b) 14
13. The common isotopes of argon must have more neutrons than the common isotopes of potassium.
14. (a) $\mathbf{H\cdot}$ (b) $\mathbf{\cdot\overset{\cdot}{\underset{\cdot}{\text{Cl}}}\cdot}$ (c) $\mathbf{\cdot\overset{\cdot}{\underset{\cdot}{\text{S}}}\cdot}$