D. Neptunium

1. What is the name given to the first series of transition metals?

A. Lanthanides B. Actinides C. d-block D. f-block 2. How many valence electrons does scandium have? A. 2 B. 3 C. 4 D. 5 3. What is the name of the element with atomic number Z=44? A. Ruthenium B. Rhodium C. Palladium D. Silver 4. Which of the following is NOT a property of transition metals? A. They have high melting and boiling points. B. They are good conductors of electricity and heat. C. They form colored compounds. D. They are found in nature in the +2 oxidation state. 5. Which of the following is the correct order of increasing atomic radius? A. Ti < Zr < HfB. Zr < Hf < TiC. Hf < Zr < TiD. Hf < Ti < Zr6. Which of the following is NOT a lanthanide? A. Praseodymium B. Neodymium C. Plutonium D. Samarium 7. Which of the following is NOT an actinide? A. Curium B. Plutonium C. Americium D. Neptunium 8. What is the name of the element with atomic number Z=96? A. Curium B. Plutonium C. Americium

9. What is the name of the element with atomic number Z=89?

- A. Actinium B. Thorium C. Protactinium
- D. Uranium
- 10. Which of the following is the correct order of increasing atomic radius?
- $\begin{array}{l} A. \ La < Ce < Pr \\ B. \ Ce < Pr < La \\ C. \ Pr < La < Ce \\ D. \ Pr < Ce < La \end{array}$

## Answer Key:

- 1. C 2. B
- 3. A
- 4. D 5. C 6. C 7. D

- 8. D 9. C 10. B