

Multiple Choice – Circle the best answer.

1. Which of the following is NOT a symbol for an element?

- A. Na C. S
B. CO D. He

2. What is the term used to collectively describe protons and neutrons?

- A. neutrinos
B. positrons
C. nucleons

3. The lowest energy state of an atom is called the:

- A. excited state.
B. ground state.
C. independent state.
D. configurational state.

4. The orbital shaped like a “dumb-bell” is:

- A. s C. d
B. p D. f

5. The principal quantum number:

- A. is represented by n.
B. refers to the main energy level of an electron.
C. is a whole number.
D. all of the above.

6. What sublevel or sublevels are present in main energy level number one?

- A. s C. s, p, d
B. s, p D. s, p, d, f

7. What is the electron distribution of carbon, which has an atomic number of six?

- A. $1s^1 2s^1 3s^1 3p^3$
B. $1s^2 2s^2 3s^2$
C. $1s^2 2s^2 2p^2$