

Name: \_\_\_\_\_

Date: \_\_\_\_\_

- 1 What makes the copper found in this wire different from the helium gas used to fill balloons?
  - A Copper is a metal which readily conducts electricity. It tends to be orange in color. Helium is not a metal and does not readily conduct electricity.
  - B Helium is a metal which readily conducts electricity. It tends to be orange in color. Copper is not a metal and does not readily conduct electricity
- 2 What are the building blocks of cells?
  - A DNA is the building blocks of cells.
  - B Atoms are the building blocks of cells.
- 3 What makes atoms in the element gold different from those in lead?
  - A The atoms in the element gold have 79 protons, 118 neutrons, and 79 electrons. The atoms in the element lead have 82 protons, 125 neutrons, and 82 electrons.
  - B The atoms in the element lead have 79 protons, 118 neutrons, and 79 electrons. The atoms in the element gold have 82 protons, 125 neutrons, and 82 electrons.
- 4 What is the overall charge of iron when it loses an electron?
  - A The overall charge of iron when it loses an electron is -1.
  - B The overall charge of iron when it loses an electron is +1.
- 5 What do this steel, the filament in this light bulb, and this can have in common?
  - A This steel, the filament in this light bulb, and this can are all made of metal. Most metals consist of atoms held together by metallic bonds.
  - B This steel, the filament in this light bulb, and this can are all made of nonmetals. Most nonmetals consist of atoms held together by metallic bonds.
- 6 An \_\_\_\_\_ is the simplest type of a pure substance.
  - A element
  - B compound
- 7 The smallest part of an element is an \_\_\_\_\_.
  - A molecule
  - B atom
- 8 The combining of atoms to form new substances is called chemical \_\_\_\_\_.
  - A bonding
  - B creation

9 Electrons in the outermost energy level are called \_\_\_\_\_ electrons.

- A outer
- B valence

10 An \_\_\_\_\_ is an atom that has lost or gained electrons.

- A ion
- B isotope

11 \_\_\_\_\_ bonds involve the transfer of electrons between atoms.

- A Metallic
- B Ionic

12 Table salt consists of a \_\_\_\_\_ lattice.

- A crystal
- B ionic

13 In a \_\_\_\_\_ bond electrons are shared between atoms.

- A covalent
- B ionic

14 In metallic bonds, the outermost electrons are quite \_\_\_\_\_.

- A stationary
- B mobile

15 Metals tend to be good \_\_\_\_\_ of electricity.

- A conductors
- B insulators