

_____ 16. A covalent bond is formed when two atoms

- a. share an electron with each other. b. share one or more pairs of electrons with each other.
c. gain electrons. d. gain and lose electrons.

_____ 17. What is the molar mass of boron (B) ?

- a. 5 g/mol b. 5 amu c. 10.81 g/mol d. 10.81 amu

_____ 18. One mole of iron atoms

- a. has more atoms than one mole of lead.
b. has fewer atoms than one mole of lead.
c. has the same number of atoms as one mole of lead.
d. cannot be determined because iron is magnetic.

_____ 19. The units of molar mass are

- a. g/mol. b. mol/g. c. amu/mol. d. amu/g.

_____ 20. Which of the following is an example of a chemical reaction?

- a. boiling of water b. evaporation of alcohol c. melting of ice d. burning of paper

_____ 21. The formation of a solid product in a chemical reaction is represented by the symbol

- a. (aq). b. (g). c. (l). d. (s).

_____ 22. A balanced formula equation always has which of the following on both sides of the equation?

- a. number of atoms b. number of molecules
c. number of atoms and molecules d. All of the above

_____ 23. All organic compounds contain

- a. hydrogen. b. water. c. carbon. d. oxygen.

_____ 24. The formula $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2$ represents an

- a. alkane. b. alkyne. c. alcohol. d. unsaturated hydrocarbon.

_____ 25. Name the alkyne with the formula C_2H_2 .

- a. ethane b. ethane c. ethyne d. ethylene

| # C | Prefix |
|-----|--------|
| 1 | Meth |
| 2 | Eth |
| 3 | Prop |
| 4 | But |
| 5 | Pent |