

Solutions

Section Quiz: Types of Mixtures

In the space provided, write the letter of the term or phrase that best completes each statement or best answers each question.

- _____ 1. All of the following are homogeneous mixtures *except*
- tomato soup.
 - a sugar-water solution.
 - gasoline.
 - a salt-water solution.
- _____ 2. Which of the following is a colloid?
- water
 - milk
 - soil
 - concrete
- _____ 3. A mixture that appears to be uniform while being stirred but which separates into different phases when agitation ceases is a
- solvent.
 - colloid.
 - suspension.
 - solute.
- _____ 4. Which mixture can be separated by filtration?
- mayonnaise
 - muddy water
 - shaving cream
 - gelatin
- _____ 5. What type of solute-solvent combination is carbon dioxide in air?
- gas-liquid
 - liquid-gas
 - liquid-liquid
 - gas-gas

Section Quiz, *continued*

- _____ 6. Which is an example of a solid-liquid solution?
- a. alcohol-water solution
 - b. oxygen-nitrogen solution
 - c. sugar-water solution
 - d. copper-nickel solution
- _____ 7. When the size of the particles in a solution and in a colloid are compared, the particle size in the solution is
- a. smaller.
 - b. larger.
 - c. the same size as the particle size in the colloid.
 - d. either smaller or larger, depending on the colloid and the solution.
- _____ 8. Which mixture exhibits the Tyndall effect?
- a. fog
 - b. salt water
 - c. gasoline
 - d. sterling silver
- _____ 9. Which of the following solutions does *not* contain an electrolyte?
- a. potassium bromide-water solution
 - b. sugar-water solution
 - c. hydrochloric acid solution
 - d. sodium chloride-water solution
- _____ 10. To conduct electricity, a solution must contain
- a. nonpolar molecules.
 - b. polar molecules.
 - c. ions.
 - d. free electrons.