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

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

Score: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Biology Test – Module #5

Matching: Match each term with the correct definition.

|  |  |
| --- | --- |
| 1. \_\_\_\_ matter
 | 1. The random motion of molecules from an area of high concentration to an area of low concentration
 |
| 1. \_\_\_\_ molecules
 | 1. A substance that alters the speed of a chemical reaction but is not used up in the process.
 |
| 1. \_\_\_\_ physical change
 | 1. An explanation or representation of something that cannot be seen.
 |
| 1. \_\_\_\_ chemical change
 | 1. A change that affects the appearance but not the chemical makeup of a substance
 |
| 1. \_\_\_\_ catalyst
 | 1. A collection of atoms that all have the same number of protons.
 |
| 1. \_\_\_\_ diffusion
 | 1. A membrane that allows some molecules to pass through but does not allow other molecules to pass through.
 |
| 1. \_\_\_\_ element
 | 1. Anything that has mass and takes up space
 |
| 1. \_\_\_\_ semipermeable membrane
 | 1. The tendency of a solvent to travel across a semipermeable membrane into areas of higher solute concentration
 |
| 1. \_\_\_\_ osmosis
 | 1. A change that alters the makeup of the elements of molecules of a substance
 |
| 1. \_\_\_\_ model
 | 1. Chemicals that result from atoms linking together
 |

Multiple choice: Determine which option is the best answer to each question.

1. \_\_\_\_ Atoms are made of all of the following EXCEPT…
	1. Electrons
	2. Protons
	3. Positrons
	4. Neutrons
2. \_\_\_\_ Which of the following have a positive charge?
	1. Electrons
	2. Protons
	3. Positrons
	4. Neutrons
3. \_\_\_\_ Which part of the atom is at the center of the atom?
	1. Hydrogen
	2. Organelle
	3. Nucleus
	4. Mitochondria
4. \_\_\_\_ The particles that make up protons and neutrons are called…?
	1. Quirkles
	2. Sparks
	3. Quartz
	4. Quarks
5. \_\_\_\_ Which of the following is NOT a state of matter?
	1. Solid
	2. Ice
	3. Liquid
	4. Gas

True or false: Determine whether each statement is true or false.

1. \_\_\_\_ The atomic number of an element equals the number of protons in that element.
2. \_\_\_\_ Matter cannot be created or destroyed.
3. \_\_\_\_ Diffusion always moves from areas of low concentration to areas of high concentration.
4. \_\_\_\_ An acid has a pH of 7-14.
5. \_\_\_\_ Most acids are slippery.
6. \_\_\_\_ The pH scale ranges from -14 to 14.
7. \_\_\_\_ If you mix a base with a acid, the result is an acid.

Write A for acid, B for base, or N for neutral.

1. \_\_\_\_ pH 8
2. \_\_\_\_ pH 13
3. \_\_\_\_ pH 1
4. \_\_\_\_ pH 9
5. \_\_\_\_ pH 4
6. \_\_\_\_ pH 7