

## Chemistry 105 Practice Exam 1

### Multiple Choice Section

1. An element \_\_\_\_\_.

- a. can be separated into its components by physical methods.
- b. always has the same chemical properties regardless of its source.
- c. cannot be separated into simpler substances by chemical methods.
- d. can also be a compound.
- e. exists only as atoms, not as molecules.

2. Which one of the following represents a chemical change?

- a. Mercury (II) oxide is heated to and forms mercury metal and oxygen gas.
- b. Rubbing alcohol evaporates.
- c. Iodine vapor deposits on a surface.
- d. Iron metal is separated from sand using a magnet.
- e. Rock salt is pulverized.

3. Equal amounts of water are present under the following conditions. In which case do the water molecules have the highest kinetic energy?

- a. as ice at  $-10^{\circ}\text{C}$  ( $14^{\circ}\text{F}$ )
- b. as steam at  $100^{\circ}\text{C}$  ( $212^{\circ}\text{F}$ )
- c. in the liquid phase at  $60^{\circ}\text{C}$  ( $139^{\circ}\text{F}$ )
- d. in the gas phase at  $110^{\circ}\text{C}$  ( $230^{\circ}\text{F}$ )
- e. in the solid phase at  $0^{\circ}\text{C}$  ( $32^{\circ}\text{F}$ )

4. Which of the following represents the largest mass?

- a. 25g kg
- b. 25  $\mu\text{g}$
- c. 2.5 g
- d. 0.25 kg
- e. 25 mg

5. A student conducts repeated trials to determine the density of a sample of seawater and obtains the following results: 1.022 g/mL, 1.023 g/mL, 1.019 g/mL, and 1.021 g/mL. Known values are reported to be in the 1.02 to 1.03 g/mL range. The experimental results are \_\_\_\_\_.

- a. less precise than the known values.
- b. more accurate than the known values.
- c. imprecise but accurate.
- d. precise and accurate.
- e. inaccurate but precise.

6. According to the law of definite proportions, \_\_\_\_\_.

- a. atoms forming a given compound react in variable proportions depending on conditions.
- b. different samples of the same compound contain the same proportions of the same elements.
- c. all compounds containing the same type of atoms have identical properties.
- d. all compounds containing the same type of atoms have relative masses that are whole-number multiples.
- e. only one type of molecule can be produced when two elements combine.

7. Which of the following statements is NOT true regarding blackbody radiation, the ultraviolet catastrophe, and Planck's view of electromagnetic radiation?

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**BM King**



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