

## Chemistry 305 Practice Exam 3

### Multiple Choice Section

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

- (a) can be separated from the compound by physical methods.
- (b) undergoes the same chemical processes that inorganic elements undergo.
- (c) can not be separated from other substances by chemical methods.
- (d) can only be a compound.
- (e) exists only as atoms, not as molecules.

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

- (a) Mercury (Hg) soluble in hydrochloric acid forms mercury(II) and hydrogen gas.
- (b) Heating ethanol evaporates.
- (c) Alcohol vapors disappear on a surface.
- (d) Iron rusted by exposure of iron and sulfuric acid.
- (e) Rock salt is pulverized.

3. Separation of water and benzene under the following conditions, in which case do the water molecules form that highest kinetic energy?

- (a) in the liquid at  $20^{\circ}\text{C}$  ( $68^{\circ}\text{F}$ )
- (b) in steam at  $100^{\circ}\text{C}$  ( $212^{\circ}\text{F}$ )
- (c) in the liquid phase at  $80^{\circ}\text{C}$  ( $176^{\circ}\text{F}$ )
- (d) in the gas phase at  $25^{\circ}\text{C}$  ( $77^{\circ}\text{F}$ )
- (e) in the solid phase at  $0^{\circ}\text{C}$  ( $32^{\circ}\text{F}$ )

4. Which of the following represents the largest mass?

- (a) 250 mg
- (b) 250 µg
- (c) 25 g
- (d) 250 kg
- (e) 250 mg

5. A student conducts repeated trials to determine the density of a sample of unknown solid substance. The following results are 3.23 g/cm<sup>3</sup>, 3.23 g/cm<sup>3</sup>, 3.219 g/cm<sup>3</sup>, and 3.231 g/cm<sup>3</sup>. Known values are reported to be in the 3.22 g/cm<sup>3</sup> range. The experimental results are \_\_\_\_\_.

- (a) lower than the other known values.
- (b) higher than the other known values.
- (c) higher than both knowns.
- (d) greater and uncertain.
- (e) inaccurate but precise.

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

- (a) atoms forming a given compound retain the same proportions regardless of conditions.
- (b) different samples of the same compound contain the same proportions of the same elements.
- (c) all compounds containing the same types of atoms have identical proportions.
- (d) all compounds containing the same types 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 Maxwell's radiation, the ultraviolet catastrophe, and Planck's view of electromagnetic radiation?

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