

## AP Chemistry Semester 1 Exam Study Guide

### Multiple Choice

Identify the choice that best completes the statement or answers the question.

- \_\_\_\_\_ 1. When the following equation is balanced, the coefficient of  $\text{HNO}_3$  is \_\_\_\_\_.



- a. 1
- b. 2
- c. 3
- d. 5
- e. 4

- \_\_\_\_\_ 2. Predict the product in the combination reaction below.



- a.  $\text{AlN}$
- b.  $\text{Al}_3\text{N}$
- c.  $\text{AlN}_3$
- d.  $\text{Al}_3\text{N}_2$
- e.  $\text{AlN}_3$

- \_\_\_\_\_ 3. What is the empirical formula of a compound that contains 27.0% S, 13.4% O, and 59.6% Cl by mass?

- a.  $\text{SOCl}$
- b.  $\text{SOCl}_2$
- c.  $\text{S}_2\text{OCl}$
- d.  $\text{SO}_2\text{Cl}$
- e.  $\text{ClSO}_4$

- \_\_\_\_\_ 4. A compound is composed of only C, H, and O. The combustion of a 0.519-g sample of the compound yields 1.24 g of  $\text{CO}_2$  and 0.255 g of  $\text{H}_2\text{O}$ . What is the empirical formula of the compound?

- a.  $\text{C}_6\text{H}_6\text{O}$
- b.  $\text{C}_3\text{H}_3\text{O}$
- c.  $\text{CH}_3\text{O}$
- d.  $\text{C}_2\text{H}_5\text{O}_3$
- e.  $\text{C}_2\text{H}_5\text{O}_2$

- \_\_\_\_\_ 5. Propane ( $\text{C}_3\text{H}_8$ ) reacts with oxygen in the air to produce carbon dioxide and water. In a particular experiment, 38.0 grams of carbon dioxide are produced from the reaction of 22.05 grams of propane with excess oxygen. What is the % yield in this reaction?

- a. 38.0
- b. 57.6

# Chemistry Study Guide Multiple Choice Answers

**Jill Meryl Levy**



## **Chemistry Study Guide Multiple Choice Answers:**

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