#### AP Chemistry Semester 1 Exam Study Guide

#### Multiple Choice

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

 $HNO_3(aq) + CaCO_3(s) \rightarrow Ca(NO_3)_2(aq) + CO_2(g) + H_2O(l)$ 

- a. 1
- 5. 2.
- c. 3
- 6. 5
- e. 4

Predict the product in the combination reaction below.

Al (s) + N<sub>2</sub> (g)  $\rightarrow$ 

- a. AllM
- b. AlaN
- c. AlNa
- d. Al<sub>3</sub>N<sub>2</sub>
- e. AlNa

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

- a. SOCI
- b. SOCIa
- c. SyOCE
- d. SO<sub>2</sub>C1
- e. CISO.

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 CO2 and 0.255 g of H2O. What is the empirical formula of the compound?

- a. C<sub>6</sub>H<sub>6</sub>O
- b. C.H.O.
- c. CH<sub>2</sub>O
- d. C<sub>2</sub>H<sub>6</sub>O<sub>3</sub>
- e. C2H6O2

Propane (C<sub>3</sub>H<sub>6</sub>) 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
- 6. 57.6

# **Chemistry Study Guide Multiple Choice Answers**

**Arshad Iqbal** 

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

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achievement gap of African American children she writes does not involve better teacher training or more parental involvement The solution lies in the classroom in the nature of the interaction between the teacher and the child And the key she argues is the instructional vision and leadership provided by principals To meet the needs of diverse learners the school must become the heart and soul of a broad effort the coordinator of tutoring and support services provided by churches service clubs fraternal organizations parents and concerned citizens Calling for the creation of the beloved community envisioned by Dr Martin Luther King Jr Hale outlines strategies for redefining the school as the Family and the broader community as the Village in which each child is too precious to be left behind In this book I am calling for the school to improve traditional instructional practices and create culturally salient instruction that connects African American children to academic achievement The instruction should be so delightful that the children love coming to school and find learning to be fun and exciting Janice Hale Study Guide and Solutions Manual Bruce A. Chase, Peter J. Russell, 2005-06 This student resource contains chapter outlines of text material solutions to all end of chapter problems key terms suggestions for analytical approaches problem solving strategies and a variety of additional questions for student practice Also featured are questions that relate to chapter specific animations and iActivities Excel Science Study Guide, Years 9-10 Will Marchment, 2004 The book contains coverage of five major topic areas in the NSW School Certificate test Energy Force and Motion Atoms Elements and Compounds Structure and Function of Liv ing Things Earth and Space Ecosystems Resources and T echnology a chapter on Investigations and Problem Solving in Sc ience to help with practical skills revision questions and chap ter tests to help you remember important information a glossary and summary in each section of the book diagrams and illustrat ions to help your understanding a section to help you prepare f or the School Certificate test a sample School Certificate test paper with answers answers to all questions

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