

Stoichiometry: Multiple Choice

1. The limiting reactant of a chemical reaction is:

- A) the reactant of a chemical process that is not consumed completely
- B) the product of a chemical process that is consumed completely
- C) the product of a chemical process that is not consumed completely
- D) the reactant of a chemical process that is consumed completely
- E) none of the above

ANS: D

2. Consider the following reaction: $\text{Ca}(\text{OH})_{2(\text{aq})} + \text{Al}_2(\text{SO}_4)_{3(\text{aq})} \rightarrow \text{CaSO}_4(\text{aq}) + \text{Al}(\text{OH})_{3(\text{aq})}$

When balanced, the mole ratio for calcium hydroxide reacting with aluminum sulphate is

- A) 1:1
- B) 2:1
- C) 2:3
- D) 1:2
- E) 3:1

ANS: E

3. Sodium phosphate, Na_3PO_4 , can be prepared by combining sodium hydroxide and hydrogen phosphate as shown in the following balanced chemical equation:



If 2.5 mol of H_2PO_4 are reacted, the number of moles of water that will be produced is:

- A) 1.0
- B) 2.5
- C) 3.0
- D) 5.0
- E) 7.5

ANS: E

4. Potassium chloride and oxygen gas are formed upon heating potassium chlorate. The following balanced equation shows this decomposition process:



The number of moles of KClO_3 required to produce 5.0 mol of oxygen is

- A) 1.0
- B) 2.0
- C) 3.0
- D) 3.3
- E) 5.0

ANS: D

5. Determine the number of grams of CO_2 that can be produced from 48.0 g of the hydrocarbon C_2H_6 , according to the following equation:



- A) 37.6 g
- B) 50.2 g
- C) 87.8 g
- D) 154 g
- E) 188.4 g

6. The limiting reactant in a chemical reaction is the _____ that is _____.

- A) Reactant, in excess
- B) Product, left over
- C) Reactant, used up
- D) Product, used up

ANS: C

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Cambridge Checkpoints VCE Chemistry Units 3 and 4 2013 Roger Slade, Maureen Slade, 2012-12-14 Cambridge Checkpoints VCE are updated regularly to provide you with the most up to date exam preparation available **Cracking the AP Chemistry Exam, 2012 Edition** Paul Foglino, 2011-08-02 Provides techniques for achieving high scores on the AP chemistry exam and includes two full length practice tests *Roadmap to the Regents* Sasha Alcott, 2003 If Students Need to Know It It's in This Book This book develops the chemistry skills of high school students It builds skills that will help them succeed in school and on the New York Regents Exams Why The Princeton Review We have more than twenty years of experience helping students master the skills needed to excel on standardized tests Each year we help more than 2 million students score higher and earn better grades We Know the New York Regents Exams Our experts at The Princeton Review have analyzed the New York Regents Exams and this book provides the most up to date thoroughly researched practice possible We break down the test into individual skills to familiarize students with the test's structure while increasing their overall skill level We Get Results We know what it takes to succeed in the classroom and on tests This book includes strategies that are proven to improve student performance We provide a breakdown of the skills based on New York standards and objectives hundreds of practice questions organized by skill two complete practice New York Regents Exams in Physical Setting Chemistry *Master the CLEP* Peterson's, 2012-04-30 Peterson's Master the CLEP is the essential prep guide for non traditional students who are looking to begin a college career and for current students who want to save on tuition costs by testing out of certain courses When you use this guide you will get a basic overview of the CLEP a look at the general examinations and the vast number of subject specific exams tips for registering and preparing for the CLEP and a guide to interpreting your test scores This is followed by extensive reviews of the five CLEP general examinations with pre and post tests and subject matter overviews that will help you pinpoint your strengths and weaknesses The Appendix will go into detail about a number of CLEP subject exams *CLEP Success* Peterson's, 2007-05-04 Offers advice on improving scores on the CLEP and includes reviews for five CLEP subjects and five full length practice tests with explanatory answers

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