

## practice test ch 7 & 8

### Multiple Choice

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

- \_\_\_\_\_ 1. Which of the following best describes the rates of chemical reaction?
- most chemical reactions occur very slowly
  - most chemical reactions occur at moderate rates
  - most chemical reactions occur very rapidly
  - chemical reactions have a wide range of rates, from extremely fast to extremely slow
- \_\_\_\_\_ 2. Which of the following is true of the rates of most chemical reactions?
- the initial rate is cannot be measured
  - the initial rate is faster than the rate later in time
  - the initial rate is the same as the rate later in time
  - the initial rate is slower than the rate later in time
- \_\_\_\_\_ 3. Which of the following is true of effective collisions?
- the number of effective collisions decreases as the temperature is increased
  - the number of effective collisions determines the reaction rate
  - both a. and b.
  - Neither a. nor b.
- \_\_\_\_\_ 4. Which of the following is true of effective collisions?
- the number of effective collisions determines the reaction rate
  - the number of effective collisions increases as the temperature is increased
  - both a. and b.
  - Neither a. nor b.
- \_\_\_\_\_ 5. Which of the following is true?
- decreasing the activation increases the reaction rate
  - the activation energy for an exothermic reaction is negative
  - both a. and b.
  - Neither a. nor b.
- \_\_\_\_\_ 6. In an energy diagram for a chemical reaction what species appears at the highest energy?
- the catalyst
  - the products
  - the reactants
  - the transition state
- \_\_\_\_\_ 7. Given that the reaction  $2 \text{H}_2(\text{g}) + \text{O}_2(\text{g}) \rightarrow 2 \text{H}_2\text{O}(\text{g})$  is exothermic, which of the following is true of the reaction  $2 \text{H}_2\text{O}(\text{g}) \rightarrow 2 \text{H}_2(\text{g}) + \text{O}_2(\text{g})$ ?
- its activation energy is lower than that of  $2 \text{H}_2(\text{g}) + \text{O}_2(\text{g}) \rightarrow 2 \text{H}_2\text{O}(\text{g})$
  - its activation energy is the same as that of  $2 \text{H}_2(\text{g}) + \text{O}_2(\text{g}) \rightarrow 2 \text{H}_2\text{O}(\text{g})$
  - its activation energy is higher than that of c. its activation energy is the same as that of  $2 \text{H}_2(\text{g}) + \text{O}_2(\text{g}) \rightarrow 2 \text{H}_2\text{O}(\text{g})$
  - there is no relationship between its activation energy and that of  $2 \text{H}_2(\text{g}) + \text{O}_2(\text{g}) \rightarrow 2 \text{H}_2\text{O}(\text{g})$
- \_\_\_\_\_ 8. In an energy diagram for an endothermic chemical reaction which of the following is true?
- the energy of the products is lower than that of the reactants
  - the energy of the transition state is higher than that of the reactants
  - both a. and b.
  - Neither a. nor b.
- \_\_\_\_\_ 9. Consider a reaction such as  $\text{A}_2(\text{g}) + \text{B}_2(\text{g}) \rightarrow 2\text{AB}(\text{g})$ . What can we say about the mechanism of the reaction?
- if the reaction is fast it occurs in a single step
  - if the reaction is fast it occurs in multiple steps
  - if the reaction is slow it occurs in multiple steps

# Modern Chemistry Chapter 8 Test

**Holt Rinehart & Winston, Holt,  
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## Modern Chemistry Chapter 8 Test:

**Modern Methods of Drug Discovery** Alexander Hillisch, Rolf Hilgenfeld, 2012-11-28 Research in the pharmaceutical industry today is in many respects quite different from what it used to be only fifteen years ago. There have been dramatic changes in approaches for identifying new chemical entities with a desired biological activity. While chemical modification of existing leads was the most important approach in the 1970s and 1980s, high throughput screening and structure based design are now major players among a multitude of methods used in drug discovery. Quite often companies favor one of these relatively new approaches over the other e.g. screening over rational design or vice versa but we believe that an intelligent and concerted use of several or all methods currently available to drug discovery will be more successful in the medium term. What has changed most significantly in the past few years is the time available for identifying new chemical entities. Because of the high costs of drug discovery projects, pressure for maximum success in the shortest possible time is higher than ever. In addition, the multidisciplinary character of the field is much more pronounced today than it used to be. As a consequence, researchers and project managers in the pharmaceutical industry should have a solid knowledge of the more important methods available to drug discovery because it is the rapidly and intelligently combined use of these which will determine the success or failure of preclinical projects.

**Laboratory Experiments to Accompany "Modern Chemistry,"** Fredus Nelson Peters, 1902      *Introduction to Modern Chemistry: Student Manual* Eugene Meyer, 1979      *Modern Power Station Practice* P.M. Reynolds, 2013-10-22 This volume contains two additional features which enhance the value of *Modern Power Station Practice* as a whole: a cumulative subject index and a detailed list of tables of contents for the entire work. The cumulative index provides access to the vast body of information presented in the set and also indicates at a glance the breadth and depth of the treatment through the use of inclusive page ranges for major topics. In order to allow the reader the greatest flexibility in using the index, there are many cross references. The entries themselves are qualified by up to two descriptive subheadings to allow the most detailed coverage possible of the subject matter. The reproduction of the tables of contents for each volume also provides an overview of the organisation of the individual volumes.

Elementary Modern Chemistry Wilhelm Ostwald, Harry Wheeler Morse, 1909      *Modern China* Xiaobing Li, 2015-11-23 Providing an indispensable resource for students, educators, businessmen and officials investigating the transformative experience of modern China, this book provides a comprehensive summary of the culture, institutions, traditions and international relations that have shaped today's China. In *Modern China*, author Xiaobing Li offers a resource far beyond a conventional encyclopedia, providing not only comprehensive coverage of Chinese civilization and traditions but also addressing the values, issues and critical views of China. As a result, readers will better understand the transformative experience of the most populous country in the world and will grasp the complexity of the progress and problems behind the rise of China to a world superpower in less than 30 years. Written by an author who lived in China for three decades, this encyclopedia addresses 16 key topics.

regarding China such as its geography government social classes and ethnicities gender based identities arts media and food each followed by roughly 250 short entries related to each topic All the entries are placed within a broad sociopolitical and socioeconomic contextual framework The format and writing consistency through the book reflects a Chinese perspective and allows students to compare Chinese with Western and American views Evaluation in Modern Education Jacob Wayne Wrightstone,1956 **An Introduction to Modern Experimental Organic Chemistry** Royston M. Roberts,1974 NDA/NA 11 years Topic-wise Solved Papers (2006 - 2016) 4th Edition Disha Experts,2017-09-02 NDA NA 11 year Topic wise Solved Papers 2006 2016 consists of last 11 years both April and August papers from 2006 2016 solved papers of Mathematics and General Ability Test distributed into 57 topics In all there are 22 Question papers 2006 April 2016 August The paper I Mathematics is distributed into 24 topics whereas the Paper II General Ability Test is divided into 2 parts English and General Knowledge English is divided into 9 topics whereas General Knowledge is divided into 7 Units Physics Chemistry Biology History Polity Geography and General Awareness which are further divided into 24 topics The book contains 5800 MCQ s from the above 22 Question papers The Mathematics section contains 2600 MCQ s whereas the General Ability section contains 3200 MCQ s The strength of the book lies in the originality of its question papers and Errorless Solutions The solution of each and every question is provided in detail step by step so as to provide 100% concept clarity to the students *Laboratory Procedures for the Medical Office* Tom Palko,1996 *Modern Statistics for Modern Biology* SUSAN. HUBER HOLMES (WOLFGANG.),Wolfgang Huber,2018 *Chemical Engineering Catalog* ,1919 **Cellulose Chemistry and Technology** ,2000 Scientific Protocols for Fire Investigation John J. Lentini,2006-01-26 Scientific Protocols for Fire Investigation provides comprehensive coverage from historical developmental current and practical perspectives The author uniquely qualified with years of experience in both on site investigations and lab analyses provides a resource that is unparalleled in depth and focus The book is distinctive in that it not Modern Chemistry Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2001 **Modern Chemical Technology** Chemical Technician Curriculum Project. Writing Team,1972 *New Technical Books* ,1926 *Psychological Testing* Thomas P. Hogan,2007 Following an active learning approach this book provides readers with the foundation to perform testing in psychology and allied disciplines It first explores the basics of psychological testing and then covers the latest and most popular tests available Real SAT II College Entrance Examination Board,1998-08-04 Real SAT II Subject Tests The best way to prepare for the SAT II is to practice on real questions from actual tests That s why this is the book to help you prepare for the SAT II Subject Tests It is the only one that gives you practice on actual full length SAT II tests plus tips and strategies from the test makers Real SAT II Subject Tests includes Descriptions of each test and sample questions Previously administered tests in every SAT II Subject Test Harvard Dental Record ,1929

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