

## CHAPTER 21 REVIEW

**Nuclear Chemistry****SECTION 1****SHORT ANSWER** Answer the following questions in the space provided.

1. \_\_\_\_\_ Based on the information about the three elementary particles in the text, which has the greatest mass?  
(a) the proton  
(b) the neutron  
(c) the electron  
(d) They all have the same mass.
2. \_\_\_\_\_ The force that keeps nucleons together is  
(a) a strong nuclear force.  
(b) a weak nuclear force.  
(c) an electromagnetic force.  
(d) a gravitational force.
3. \_\_\_\_\_ The stability of a nucleus is most affected by the  
(a) number of neutrons.  
(b) number of protons.  
(c) number of electrons.  
(d) ratio of neutrons to protons.
4. \_\_\_\_\_ If an atom should form from its constituent particles,  
(a) matter is lost and energy is taken in.  
(b) matter is lost and energy is released.  
(c) matter is gained and energy is taken in.  
(d) matter is gained and energy is released.
5. \_\_\_\_\_ For atoms of a given mass number, those with greater mass defects, have  
(a) smaller binding energies per nucleon.  
(b) greater binding energies per nucleon.  
(c) the same binding energies per nucleon as those with smaller mass defects.  
(d) variable binding energies per nucleon.
6. Based on Figure 5.3 of the text, which isotope of He, helium-3 or helium-4,  
\_\_\_\_\_ a. has the smaller binding energy per nucleon?  
\_\_\_\_\_ b. is more stable to nuclear changes?
7. The number of neutrons in an atom of magnesium-25 is \_\_\_\_\_.
8. Nuclides of the same element have the same \_\_\_\_\_.

# Chemistry Ch 21 Answers Study Guide

**Seager/Slabaugh**



## Chemistry Ch 21 Answers Study Guide:

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this the content is organized in a way that combines the most useful features of a functional group approach with one largely based on reaction mechanisms The authors philosophy is to emphasize mechanisms and their common aspects as often as possible and at the same time use the unifying features of functional groups as the basis for most chapters The structural aspects of the authors approach show students what organic chemistry is Mechanistic aspects of their approach show students how it works And wherever an opportunity arises the authors show students what it does in living systems and the physical world around us

**Organic Chemistry Study Guide with Solutions Manual** Neil E. Schore, 2007 The guide includes chapter introductions that highlight new material chapter outlines detailed comments for each chapter section a glossary and solutions to the end of chapter problems presented in a way that shows students how to reason their way to the answer

**Study Guide and Partial Solutions Manual, Fundamentals of General, Organic, and Biological Chemistry** Susan McMurry, 1996 This internationally acclaimed detective series is just the thing for lovers of those Number One Ladies looking for a darker more realistic view of Botswana Sue Baker Publishing News

**Organic Chemistry, 13e Student Study Guide and Solutions Manual** T. W. Graham Solomons, Craig B. Fryhle, Scott A. Snyder, 2022-05-03 Organic Chemistry Student Study Guide and Solutions Manual 13th Edition offers the full solutions for select exercises from the text

Study Guide and Solutions Manual for Fundamentals of General, Organic, and Biological Chemistry Susan McMurry, 1992

**Solutions Manual and Study Guide to Accompany Introduction to Organic Chemistry, 4th Ed** Paul A. Bartlett, Judith G. Koch, 1992

**A Self-study Guide to the Principles of Organic Chemistry** Jiben Roy, 2013 A Self Study Guide to the Principles of Organic Chemistry Key Concepts Reaction Mechanisms and Practice Questions for the Beginner will help students new to organic chemistry grasp the key concepts of the subject quickly and easily as well as build a strong foundation for future study Starting with the definition of atom the author explains molecules electronic configuration bonding hydrocarbons polar reaction mechanisms stereochemistry reaction varieties organic spectroscopy aromaticity and aromatic reactions biomolecules organic polymers and a synthetic approach to organic compounds The over one hundred diagrams and charts contained in this volume will help students visualize the structures and bonds as they read the text and make the logic of organic chemistry clear and easily understood Each chapter ends with a list of frequently asked questions and answers followed by additional practice problems Answers are included in the Appendix

**Study Guide with Answers to Selected Problems** H. Stephen Stoker, Danny V. White, 2003-04 This supplement includes for each chapter a brief overview activities and practice problems to reinforce skills and a practice test The answers section includes answers for all odd numbered end of chapter exercises

Study Guide and Solutions Manual for McMurry's Organic Chemistry, Fifth Edition Susan McMurry, 2000 Provides answers and explanations to all in text and end of chapter exercises Also includes summaries of name reactions functional group synthesis and reactions lists of reagents and abbreviations and articles on topics ranging from infrared absorption frequencies to the Nobel Prize winners in Chemistry This edition now includes all

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**Study Guide and Solutions Manual for Seager/Slabaugh's Chemistry for Today**

Seager/Slabaugh,2004 The fifth edition of the Study Guide and Student Solutions Manual has been updated to reflect all of the changes to the text This ancillary tests the student on the learning objectives in each chapter and provides answers to all of the even numbered end of chapter exercises New additional activities have been added to include a review of each section of the chapter and a section entitled Tying It All Together with a Laboratory Application

*Study Guide and Solutions Manual, Fundamentals of General, Organic, and Biological Chemistry, Third Edition* John McMurry,Susan McMurry,1999

Provides worked out solutions to text problems along with chapter by chapter outlines and a variety of self tests at the end of each chapter

Study Guide, Answer Book to Accompany Organic Chemistry Alan S. Wingrove,Robert L. Caret,1981

*Study Guide and Solutions Manual for Organic Chemistry* Susan McMurry,1996 This revision of the best selling organic chemistry textbook today has been fully updated and revised to offer more applications a completely new chapter and dozens of new problems and examples McMurryUs text is currently in use at hundreds of colleges and universities throughout the United States and Canada and is an international bestseller from the United Kingdom to the Pacific Rim In this edition McMurry continues to do what he does best focus on the important material of the course and explain it in a concise clear way

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