

## Problems for Chapter 2

### PROBLEM 1

Draw good diagrams of saturated hydrocarbons with seven carbon atoms having (a) linear, (b) branched, and (c) cyclic structures. Draw molecules based on each fragment having both ketone and carboxylic acid functional groups in the same molecule.

### PROBLEM 2

Draw for yourself the structures of amoxicillin and Tamiflu shown on page 18 of the textbook. Identify on your diagrams the functional groups present in each molecule and the ring sizes. Finally the carbon framework: is there a single carbon chain or more than one? Are they linear, branched, or cyclic?



Amoxicillin (penicillin derivative)  
a beta-lactam, present  
as fragment of bacterial enzymes



Tamiflu (antiviral)  
present in  
bacterial enzymes  
in present by flu

### PROBLEM 3

Identify the functional groups in these two molecules.



the heart drug carvedilol



a derivative  
of the sugar ribose

# Problems To Accompany Organic Chemistry 2nd Edition

**ML Yell**



## **Problems To Accompany Organic Chemistry 2nd Edition:**

*Solutions Manual to Accompany Organic Chemistry* Jonathan Clayden, Stuart Warren, Stuart G. Warren, 2013 This text contains detailed worked solutions to all the end of chapter exercises in the textbook *Organic Chemistry* Notes in tinted boxes in the page margins highlight important principles and comments *Student Study Guide and Solutions Manual to accompany Organic Chemistry, 2e* David R. Klein, 2014-01-07 This is the Student Study Guide and Solutions Manual to accompany Organic Chemistry 2e Organic Chemistry 2nd Edition is not merely a compilation of principles but rather it is a disciplined method of thought and analysis Success in organic chemistry requires mastery in two core aspects fundamental concepts and the skills needed to apply those concepts and solve problems Readers must learn to become proficient at approaching new situations methodically based on a repertoire of skills These skills are vital for successful problem solving in organic chemistry Existing textbooks provide extensive coverage of the principles but there is far less emphasis on the skills needed to actually solve problems **Study Guide to Accompany Introduction to Organic Chemistry, 2nd Ed** William Henry Brown, 1978 *General, Organic, and Biochemistry Study Guide* Marcia L. Gillette, Ira Blei, Wendy Gloffke, George Odian, 2006-01-27 This study guide provides reader friendly reinforcement of the concepts covered in the textbook Features include Chapter outlines Are you able to Worked text problems Fill ins Test yourself Concept maps Can also be used for Blei and Odian's Organic and Biochemistry Student's Solutions Manual to Accompany Organic Chemistry Thomas J. Cogdell, 2012-11-05 Student's Solutions Manual to Accompany Organic Chemistry is a 27 chapter manual designed for use as a supplement to Organic Chemistry textbook by Stephen J Weininger and Frank R Stermitz This book provides the complete answers to all the problems in the textbook and also contains several study features to help broaden and strengthen the knowledge of the material presented in each chapter These features are applied in the organization of the manual including Study Hints New Mechanisms Reactions and Answers to Problems This book focuses on the concepts of types of mechanisms and reactions for a class of compounds The opening chapters cover topics such as organic structures molecular bonding alkanes and cycloalkanes stereoisomerism and chirality reactive intermediates and interconversion of alkyl halides alcohols and ethers These topics are followed by discussions on alkenes physical methods for chemical structure determination polymerization alkynes aromatic compounds and Aldol condensation reactions The remaining chapters tackle the chemistry synthesis and reactions of specific class of compounds This book is directed toward organic chemistry teachers and students

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**Chemistry of the Carbonyl Group** Timothy K. Dickens,Stuart Warren,2018-04-11 Teaches and enables students to build confidence in drawing and manipulating curly arrows a fundamental skill for all organic chemists This book is an interactive approach to learning about chemistry of the carbonyl group inviting students to work through its pages with pencil and paper in hand It educates with the belief that the most effective way to learn is by practice and interaction With this in mind the reader is asked to predict what would happen under a specific set of reaction conditions The book is divided into frames each frame poses a question and invites the reader to predict what will happen Subsequent frames give the solution but then pose more questions to develop a theme further Chemistry of the Carbonyl Group A Programmed Approach to Organic Reaction Mechanisms Revised Edition provides a solid grounding in the fundamental reactions of carbonyls Presented in full colour to enhance the understanding of mechanisms within chemistry the chapters of this step by step guide cover nucleophilic addition to the carbonyl group nucleophilic substitution nucleophilic substitution at the carbonyl group with complete removal of carbonyl oxygen carbanions and enolisation and building organic molecules from carbonyl compounds A must have book for undergraduate chemists to emphasise understanding in carbonyl group chemistry Goes through all the stages of basic carbonyl chemistry detailing even the simplest mechanisms A step by step learning guide to synthetic chemistry for the first year of a chemistry degree with all the information needed for independent learning Provides a solid grounding in the fundamental reactions of carbonyls which will inform the understanding of many other organic chemistry reactions Chemistry of the Carbonyl Group A Programmed Approach to Organic Reaction Mechanisms Revised

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