



# Organic Chemistry I

## Test 3 Extra Synthesis Practice Problems

Page 1: Synthesis Design Practice.

Page 2+3: Predict the Product Practice (including some that involve stereochemistry).

Page 4: Cis/trans Stereospecific reactions: which recipe to use; which E or Z alkene to use.

Page 5: Recognizing cationic/anionic/radical reactions, and reasonable intermediates/first steps

Page 6: Elements of unsaturation/hydrogenation problems; ozonolysis puzzle problems.

## Answers

1

A. Provide reagents for the following transformations.

1.  $\text{H}_2\text{SO}_4$   
2.  $\text{Br}_2$
1.  $\text{H}_2\text{SO}_4$   
2.  $\text{H}_2(\text{OAc})_2$ ,   
3.  $\text{NaBH}_4$
1.  $\text{NEt}_3$  (bulky base) or  $\text{KO}^+\text{t}^-$   
2.  $\text{Cl}_2$ ,  $\text{H}_2\text{O}$
1.  $\text{NEt}_3$  (bulky base)  
2.  $\text{BH}_3 \cdot \text{THF}$   
3.  $\text{NaOH}$ ,  $\text{H}_2\text{O}_2$
1.  $\text{NEt}_3$   
2.  $\text{OsO}_4$ ,  $\text{H}_2\text{O}_2$
1.  $\text{Br}_2$ ,  $h\nu$   
2.  $\text{NaOH}$  (small base)  
3.  $\text{O}_3$   
4.  $\text{Me}_2\text{S}$
1.  $\text{Br}_2$ ,  $h\nu$   
2.  $\text{NaOH}$   
3.  $\text{CH}_3\text{CO}_3\text{H}$ ,  $\text{H}_2\text{O}$



# Advanced Organic Chemistry Review Questions

**Emilie Sanchez**



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Strategies and Solutions to Advanced Organic Reaction Mechanisms Andrei Hent, John Andraos, 2019-06-26 Strategies and Solutions to Advanced Organic Reaction Mechanisms A New Perspective on McKillop's Problems builds upon Alexander Sandy McKillop's popular text Solutions to McKillop's Advanced Problems in Organic Reaction Mechanisms providing a unified methodological approach to dealing with problems of organic reaction mechanism This unique book outlines the logic experimental insight and problem solving strategy approaches available when dealing with problems of organic reaction mechanism These valuable methods emphasize a structured and widely applicable approach relevant for both students and experts in the field By using the methods described advanced students and researchers alike will be able to tackle problems in organic reaction mechanism from the simple and straight forward to the advanced *Advanced Organic Reaction Mechanisms and Stereochemistry* Mr. Rohit Manglik, 2024-03-05 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels **March's Advanced Organic Chemistry** Michael B. Smith, Jerry March, 2007-01-29 The Sixth Edition of a classic in organic chemistry continues its tradition of excellence Now in its sixth edition March's Advanced Organic Chemistry remains the gold standard in organic chemistry Throughout its six editions students and chemists from around the world have relied on it as an essential resource for planning and executing synthetic reactions The Sixth Edition brings the text completely current with the most recent organic reactions In addition the references have been updated to enable readers to find the latest primary and review literature with ease New features include More than 25 000 references to the literature to facilitate further research Revised mechanisms where required that explain concepts in clear modern terms Revisions and updates to each chapter to bring them all fully up to date with the latest reactions and discoveries A revised Appendix B to facilitate correlating chapter sections with synthetic transformations Advanced Organic Chemistry Francis A. Carey, Richard J. Sundberg, 2007-09-06 The two part fifth edition of Advanced Organic Chemistry has been substantially revised and reorganized for greater clarity The material has been updated to reflect advances in the field since the previous edition especially in computational chemistry Part B describes the most general and useful synthetic reactions organized on the basis of reaction type It can stand alone together with Part A Structure and Mechanisms the two volumes provide a comprehensive foundation for the study in organic chemistry Companion websites provide digital models for students and exercise solutions for instructors *MCAT Organic Chemistry Review 2018-2019* Kaplan Test Prep, 2017-07-04 Kaplan's MCAT Complete 7 Book Set Subject Review has all the information and strategies you need to score higher on the MCAT These books feature more practice than any other guide plus targeted strategy review opportunities for self analysis and thorough information on all of the critical thinking skills necessary for MCAT success from

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