

**FINAL EXAM Summary Sheet**

**Potential Study Questions**

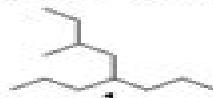
***Disclaimer:** The following are potential topics for exam questions and sample questions; the exam may or may not contain these questions, and questions not included in this sheet may or may not be on the exam. There also may be types in this sheet.*

**ALKANES**

**Physical Properties**

- Hydrocarbons, dispersion forces, non-polar, not miscible w/water, low density
- $sp^3$  hybridized carbon: C-C, C-H bonds, electronegativity, MO theory & orbitals
- m.p.: odd/even effect
- b.p.: C1-4: gases; C5-17: liquids, C18 and up: solids
- linear, branched, cyclics, chirality (incl. optical activity, D/L, R/S, dL, +/ -),
- non-equivalent carbons
- isomers: constitutional, conformational isomers, stereo-isomers
- naming: special groups:
  - o Me, Et, Pr, Bu
  - o iPr, iBu, sec-Bu, tBu
  - o neopentyl

***Task:** Name compounds 1 and 2; identify any chiral centers and # of chemically non-equivalent carbons; where would the compounds absorb in IR or UV-vis? Identify the participating orbitals.*



- Rotational/conformational isomers = conformations
  - o eclipsed
    - values: H/H; CH<sub>3</sub>/H; CH<sub>3</sub>/CH<sub>3</sub>
  - o staggered, anti, gauche
    - value: gauche: CH<sub>3</sub>/CH<sub>3</sub>

***Task:** draw an energy rotational energy plot (360°) for pentane along C2-C3 bond*

- Cycloalkanes:
  - o Spiro, fused, bridged: naming
  - o Heats of combustion: ring strains (angle, torsional, sterics)
  - o Cis/trans
  - o 1,3-diaxial interactions
    - value H/CH<sub>3</sub>
  - o Ring-flip for cyclohexane

# Organic Chemistry Final Exam Study Guide

**Philip S. Bailey, Jr., Christina A. Bailey**

## Organic Chemistry Final Exam Study Guide:

**Study Guide and Solutions Manual for Fundamentals of Organic Chemistry** Susan McMurry, 1994 Following a brief review of structure and bonding organic molecules and functional groups are presented as early as possible. The text is organized primarily by functional group beginning with simple alkanes and moving toward more complex compounds. Emphasis is placed on the fundamental mechanistic similarities of organic reactions. McMurry's thorough revision continues to present the solid content necessary for this course without sacrifice of important subjects and pedagogical tools. Text and reaction summaries, full problem sets and outstanding artwork are just some of the features in the Third Edition usually found in a full year book. McMurry's clear, well-written explanations remain a highlight of the book.

*Organic Chemistry Demystified* Daniel Bloch, 2006-03-31 There's no easier, faster, or more practical way to learn the really tough subjects. *Organic Chemistry Demystified* follows the organization of standard organic chemistry courses and can also be used as a study guide for the MCAT Medical College Admission Test and DAT Dental Admissions Testing exams. This self-teaching guide comes complete with key points, background information, quizzes at the end of each chapter, and even a final exam. Simple enough for beginners but challenging enough for advanced students, this is a lively and entertaining brush-up introductory text or classroom supplement.

[Study Guide and Solutions Manual to Accompany Fundamentals of Organic Chemistry](#) McMurry, Susan McMurry, 1990

**Study Guide and Solutions Manual to Accompany Fundamentals of Organic Chemistry** John McMurry, Susan McMurry, 1986

[PSI Study Guide for Organic Chemistry by Douglas C. Neckers, Michael P. Doyle, E. C. Blossey](#), 1977

**A Level Chemistry MCQ (Multiple Choice Questions)** Arshad Iqbal, 2019-06-18

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### **The Complete Idiot's Guide to Organic**

**Chemistry** Ian Guch,Kjirsten Wayman Ph.D.,2008-06-03 An easy formula for success With topics such as stereochemistry carboxylic acids and unsaturated hydrocarbons it's no wonder so many students have a bad reaction to organic chemistry class Fortunately this guide gives college students who are required to take organic chemistry an accessible easy to follow companion to their textbooks With the tremendous growth in the health care job market many students are pursuing college degrees that require organic chemistry Ian Guch is an award winning chemistry teacher who has taught at both the high school and college levels

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