

## 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 typos 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,  $d/l$ ,  $+/-$ ),
- 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 in 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 The A Level Chemistry Multiple Choice Questions MCQ Quiz with Answers PDF A Level Chemistry MCQ PDF Download Quiz Questions Chapter 1 28 Practice Tests with Answer Key IGCSE GCE Chemistry Questions Bank MCQs Notes includes revision guide for problem solving with hundreds of solved MCQs A Level Chemistry MCQ with Answers PDF book covers basic concepts analytical and practical assessment tests A Level Chemistry MCQ PDF book helps to practice test questions from exam prep notes The A Level Chemistry MCQs with Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved MCQs A Level Chemistry Multiple Choice Questions and Answers MCQs PDF Free download chapter 1 a book covers solved quiz questions and answers on chapters Alcohols and esters atomic structure and theory benzene chemical compound carbonyl compounds carboxylic acids acyl compounds chemical bonding chemistry of life electrode potential electrons in atoms enthalpy change equilibrium group IV groups II and VII halogenoalkanes hydrocarbons introduction to organic chemistry ionic equilibria lattice energy moles and equations nitrogen and sulfur organic and nitrogen compounds periodicity polymerization rates of reaction reaction kinetics redox reactions and electrolysis states of matter transition elements tests for college and university revision guide A Level Chemistry Quiz Questions and Answers PDF free download eBook's sample covers beginner's solved questions textbook's study notes to practice online tests The book

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