

## FINAL EXAM Summary Sheet

### Potential Study Questions

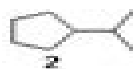
*Disclaimer: The following are potential topics for exam questions and sample questions; the exam may or may not contain these questions, and questions not included in this sheet may or may not be on the exam. There also may be typos in this sheet.*

### 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 Final Study Guide

**Henry Kiddle, Alexander Jacob Schem**



## Organic Final Study Guide:

**Study Guide with Solutions to Accompany Burgoyne, A Study Course in Organic Chemistry** N. Sue Barnes, 1979

**PMP: Project Management Professional Exam Study Guide** Kim Heldman, 2007-07-17 Get the full coverage you need for the PMP Exam Get the preparation you need for the challenging Project Management Professional PMP certification exam in this comprehensive study guide In addition to coverage of all exam objectives you ll find practical advice including How This Applies to Your Current Project and Real World Scenario sidebars as well as coverage for the Certified Associate in Project Management CAPM exam and much more Full coverage of all exam objectives in a systematic approach so you can be confident you re getting the instruction you need for the exam Practical hands on exercises to reinforce critical skills Real world scenarios that put what you ve learned in the context of actual job roles Challenging review questions in each chapter to prepare you for exam day Exam Essentials a key feature in each chapter that identifies critical areas you must become proficient in before taking the exam A handy tear card that maps every official exam objective to the corresponding chapter in the book so you can track your exam prep objective by objective The accompanying CD features The Sybex test engine which includes all of the chapter review questions and bonus exams Electronic flashcards that reinforce your understanding and run on your PC Pocket PC or Palm handheld More than two hours of audio instruction so you can fine tune your project management skills The entire book in searchable and printable PDF Order today so you can study anywhere any time and approach the exam with confidence PMP Project Management Professional and CAPM are registered marks of the Project Management Institute Inc

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Q 240 Smaller diameter wire Although the most common diameters of welding wire are \_\_\_\_ and \_\_\_\_ a smaller diameter wire usually will make it easier to create a good weld a 035 to 045 b 025 to 045 c 015 to 035 d 045 to 025

Ans A Exp Smaller diameter wire Although the most common diameters of welding wire are 045 and 035 a smaller diameter wire usually will make it easier to create a good weld

Q 241 This is a good recommendation for thinner materials but be careful using this approach on thicker materials \_\_\_\_ because there may be a risk of lack of fusion a 3 16 b 3 16 c 3 15 d 3 15

Ans A Exp This is a good recommendation for thinner materials but be careful using this approach on thicker materials 3 16 because there may be a risk of lack of fusion

Q 242 For most casual welders a good rule of thumb to assure high quality welding is to change the tip after ever \_\_\_\_ lbs of wire Another point to remember about contact tips is that they should always be threaded completely into the gas diffuser and tightened prior to welding to give a smooth flow of welding current a

200 b 100 c 400 d 300 Ans B Exp For most casual welders a good rule of thumb to assure high quality welding is to change the tip after ever 100 lbs of wire Proudly Made in the USA Your purchase supports over 100 America workers including writers editors managers researchers service reps programmers engineers designers and technicians 80% of your purchase made between November and Dec will be donated to find a cure *Go Organic Teacher's Resource Guide CD* Saddleback Educational Publishing,2010-09-01 Designed to work with both differentiated levels of Think Green these 24 page guides were developed in consultation with several state educational standards and contain multiple components Three lesson plans are included These lesson plans are divided into sections vocabulary preview reading the text discussing the meaning word work extending the meaning and critiquing The teacher s guide also includes 11 worksheets 2 vocabulary 1 writing 1 index 2 review and 5 activity sheets **Organic Chemistry** Harold Hart,1991 Ancillary package available upon adoption **A Manual of Organic Materia Medica** John Michael Maisch,1882 *Study Guide* Stanley Chernicoff,2001-08 From Edward E Chatelain Valdosta State University Georgia this study guide helps students review and master the key ideas from every chapter through labeling exercises Chapter Reviews with matching statements plus Practice Tests and Challenge Tests that consist of multiple choice true false matching and short essay questions **Geology Study Manual** Patricia Sutch,2003 *The Dictionary of Education and Instruction: a Reference Book and Manual on the Theory and Practice of Teaching* Henry Kiddle,Alexander Jacob Schem,1882 *Organic Chemistry* National Learning Corporation,2020-03-15 Examcrackers 1001 Questions in MCAT Organic Chemistry Michelle Gilbertson,2006 This book contains 1001 organic chemistry questions covering all the organic chemistry topics tested by the MCAT Each question is in the MCAT multiple choice format Questions are arranged by topic and range from basic to extremely difficult Typically questions on a given topic begin easy and become progressively more difficult Answers with explanations and formulas are provided Advances in Organic Geochemistry ,1972 **Catalogue of Title-entries of Books and Other Articles Entered in the Office of the Librarian of Congress, at Washington, Under the Copyright Law ... Wherein the Copyright Has Been Completed by the Deposit of Two Copies in the Office** Library of Congress. Copyright Office,1979 *Technical Book Review Index* ,1922 An Introduction to Organic Chemistry Alexander Lowy,Benjamin Harrow,1928 **The Science of Thought** Charles Carroll Everett,1890 **The United States Catalog** ,1924 Organic Chemistry I Multiple Choice Q & A Exam David Jones, PhD,2024-11-10 *Organic Chemistry A Comprehensive Guide for Students and Professionals Unlock the Secrets of Organic Chemistry with Clear Explanations and Practical Applications Dive into the world of organic chemistry with this in depth guide designed for students and professionals alike Covering all essential concepts from molecular structures to complex reactions this book provides Detailed Explanations Understand foundational principles with clear accessible language Step by Step Reactions Learn key reaction mechanisms with step by step guidance Practice Problems Solutions Test your knowledge and master concepts with a range of practice problems and detailed solutions Real World Applications Explore how organic chemistry*

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