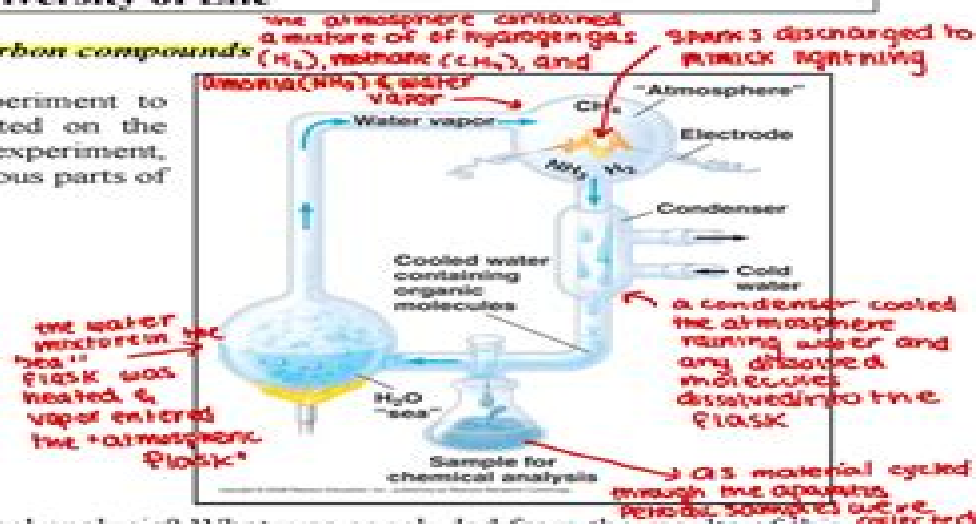


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## Chapter 4: Carbon and the Molecular Diversity of Life

### Concept 4.1 Organic chemistry is the study of carbon compounds

1. Study this figure of Stanley Miller's experiment to simulate conditions thought to have existed on the early Earth. Explain the elements of this experiment, using arrows to indicate what occurs in various parts of the apparatus.



2. What was collected in the sample for chemical analysis? What was concluded from the results of this experiment? *There were a variety of organic molecules that are common in organisms (hydrocarbons, amino acids,  $CH_2O$ ,  $CH_4$  and a more) concluded that organic molecules may have been synthesized abiotically on the Earth*

### Concept 4.2 Carbon atoms can form diverse molecules by bonding to four other atoms

3. Make an electron distribution diagram of carbon. It is essential that you know the answers to these questions:

- a. How many valence electrons does carbon have? *4!!!*
- b. How many bonds can carbon form? *4!!! up to 4*
- b. What type of bonds does it form with other elements?

*covalent bonds*

4. Carbon chains form skeletons. List here the types of skeletons that can be formed.

- 1.) length
- 2.) presence of rings
- 3.) branching
- 4.) double bond position

5. What is a hydrocarbon? Name two. Are hydrocarbons hydrophobic or hydrophilic?

*An organic molecule consisting only of carbon & Hydroge*  
*Hydrophobic*

# Guided Answers For Chapter 4

**Ben Piper, David Clinton**



## Guided Answers For Chapter 4:

*Study Guide for Psychology* David G. Myers, Richard O. Straub, 2006-04-07 This eighth edition of David G Myers Psychology includes expanded coverage of the most recent developments in this wide ranging field This text includes self tests and critical thinking exercises based on the concepts discussed in the eighth edition **The Study Guide for Developing Person Through the Life Span** Kathleen Stassen Berger, 2007-12-24 This seventh edition comes with a significant revision of cognitive development through childhood revised and updated chapters on adolescence and more attention to emerging and early adulthood The Developing Person Through the Life Span Study Guide Richard O. Straub, 2004-04-30 This study guide is designed for use with The Developing Person Through the Life Span Sixth Edition by Kathleen Stassen Berger It is intended to help students evaluate their understanding of that material and to review any problem areas Sections such as How to Manage Your Time Efficiently Study more effectively and Think Critically provide detailed instructions on how to use the textbook Each chapter includes a Chapter Overview a set of Guided Study questions a Chapter Review section and three review tests Preface Wastewater Operator Certification Study Guide John Giorgi, 2011-01-12 **Study & Answer Guide Dr. Martin Luther 1483 - 1546** W.O. Loesch, 2018-09-10 This Study 2 Summary statements for each chapter 551 statements in all 3 Questions about each chapter 445 questions in all The questions cover main contents in each chapter Additional questions or applications may be supplied by leaders or groups This Study Answer Guide was designed to serve as a supplement for the book Dr Martin Luther 1483 1546 The two publications are listed separately in the catalog of available books **Bookwise** Sharon Parsons, 2001 With a balance of fiction and non fiction text types and genres Bookwise is carefully graded and organised into five cross curricular strands encouraging links to other subjects The full colour readers are accompanied by Teacher s Guides and Resource Sheets to help you get the most out of your Guided Reading and Writing sessions *OCP: Oracle Certified Professional Java SE 8 Programmer II Study Guide* Jeanne Boyarsky, Scott Selikoff, 2015-12-01 Complete trusted preparation for the Java Programmer II exam OCP Oracle Certified Professional Java SE 8 Programmer II Study Guide is your comprehensive companion for preparing for Exam 1Z0 809 as well as upgrade Exam 1Z0 810 and Exam 1Z0 813 With full coverage of 100% of exam objectives this invaluable guide reinforces what you know teaches you what you don t know and gives you the hands on practice you need to boost your skills Written by expert Java developers this book goes beyond mere exam prep with the insight explanations and perspectives that come from years of experience You ll review the basics of object oriented programming understand functional programming apply your knowledge to database work and much more From the basic to the advanced this guide walks you through everything you need to know to confidently take the OCP 1Z0 809 Exam and upgrade exams 1Z0 810 and 1Z0 813 Java 8 represents the biggest changes to the language to date and the latest exam now requires that you demonstrate functional programming competence in order to pass This guide has you covered with clear explanations and expert advice Understand

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