

Name _____ Period _____

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, CH₂O, CH₄ 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

Ap Biology Chapter 4questions

Mark Anestis



Ap Biology Chapter 4 questions:

Exclusive AP Biology Practice Questions & Strategies Pasquale De Marco, 2025-05-21 Exclusive AP Biology Practice Questions Strategies is the perfect resource for students who want to ace the AP Biology exam This comprehensive book provides a complete review of the course material along with practice questions and strategies for success on the exam The book is divided into 10 chapters each of which covers a different topic The chapters are written in a clear and concise style and they are packed with essential information Each chapter also includes practice questions to help students test their understanding of the material In addition to the practice questions the book also includes a number of other features to help students succeed on the AP Biology exam These features include Key terms Each chapter includes a list of key terms that students need to know Review questions Each chapter includes a set of review questions to help students test their understanding of the material Practice tests The book includes two full length practice tests that are modeled after the actual AP Biology exam Exclusive AP Biology Practice Questions Strategies is the perfect book for students who want to Get a comprehensive review of the course material Practice answering AP Biology exam questions Develop strategies for success on the exam With Exclusive AP Biology Practice Questions Strategies students can feel confident that they are prepared to ace the AP Biology exam If you like this book write a review on google books

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