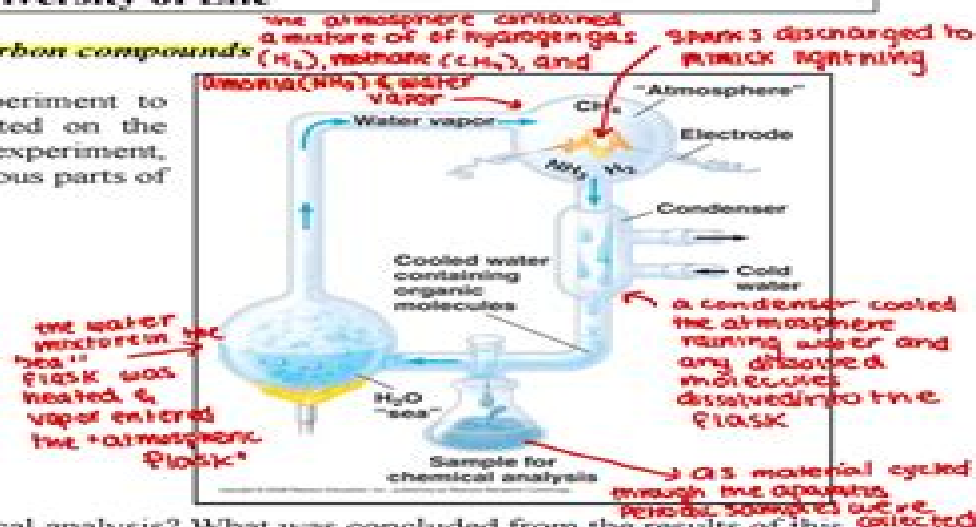


Name _____ Period _____

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

Bio Chapter 45 Guide Answers

**Andrew Ko, Malin Dollinger, Ernest H.
Rosenbaum**



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Biology/science Materials Carolina Biological Supply Company,1991 **They Ask, You Answer** Marcus

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Everyone's Guide to Cancer Therapy Andrew Ko, Malin Dollinger, Ernest H. Rosenbaum, 2011-05-12 Written by two oncologists this authoritative but readable reference stands out as a uniquely comprehensive thorough source of up to date information Library Journal For more than thirty years *Everyone's Guide to Cancer Therapy* has been the definitive resource for anyone confronting a cancer diagnosis The revised and updated fifth edition draws on the latest research information and advice from more than 100 top oncology specialists Equally informative and accessible this comprehensive book helps cancer patients and their caregivers navigate through diagnosis treatment and supportive care Topics include Information on recently approved targeted therapies for various cancer types The newest strategies in cancer diagnosis and prevention Cancer biology translating scientific discoveries into meaningful advances for patients Supportive care and complementary approaches **AP Biology For Dummies** Peter J. Mikulecky, Michelle Rose Gilman, Brian Peterson, 2008-06-02 Relax The fact that you're even considering taking the AP Biology exam means you're smart hard working and ambitious All you need is to get up to speed on the exam's topics and themes and take a couple of practice tests to get comfortable with its question formats and time limits That's where *AP Biology For Dummies* comes in This user friendly and completely reliable guide helps you get the most out of any AP biology class and reviews all of the topics emphasized on the test It also provides two full length practice exams complete with detailed answer explanations and scoring guides This powerful prep guide helps you practice and perfect all of the skills you need to get your best possible score And as a special bonus you'll also get a handy primer to help you prepare for the test taking experience Discover how to Figure out what the questions are actually asking Get a firm grip on all exam topics from molecules and cells to ecology and genetics Boost your knowledge of organisms and

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