

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 Reading Guide Answers Chapter 30

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Teacher's Guide to the Modern Biology Program James Howard Otto, Albert Towle, Elizabeth H. Crider, 1965 *AP Biology Prep Plus 2018-2019* Kaplan Test Prep, 2017-12-05 Kaplan's AP Biology Prep Plus 2018 2019 is completely restructured and aligned with the current AP exam giving you concise review of the most tested content to quickly build your skills and confidence With bite sized test like practice sets and customizable study plans our guide fits your schedule We're so confident that AP Biology Prep Plus offers the guidance you need that we guarantee it After studying with our online resources and book you'll score higher on the AP exam or you'll get your money back To access your online resources go to kaptest.com booksonline and follow the directions You'll need your book handy to complete the process Personalized Prep Realistic Practice Two full length Kaplan practice exams with comprehensive explanations Online test scoring tool to convert your raw score into a 1-5 scaled score Pre and post quizzes in each chapter so you can monitor your progress Customizable study plans tailored to your individual goals and prep time Online quizzes and workshops for additional practice Focused content review on the essential concepts to help you make the most of your study time Test taking strategies designed specifically for AP Biology Expert Guidance We know the test our AP experts make sure our practice questions and study materials are true to the exam We know students every explanation is written to help you learn and our tips on the exam structure and question formats will help you avoid surprises on Test Day We invented test prep Kaplan www.kaptest.com has been helping students for 80 years and more than 95% of our students get into their top choice schools AP Computer Science Kathleen A. Larson, David Levine, 2005 Boxed quotes offering advice from students who have aced the exams and from AP teachers and college professors **Readers' Guide to Periodical Literature**, 1939 Biology Kenneth Raymond Miller, Prentice Hall (School Division), 1999-02 **The Young Naturalist's Guide to Florida** Peggy Sias Lantz, Wendy A. Hale, 1994 Discusses the endangered plants birds insects and reptiles that inhabit Florida's wild regions including the coral reefs and the Everglades **Resources in Education**, 1996 *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office, 1967 Includes Part 1 Number 1 Books and Pamphlets Including Serials and Contributions to Periodicals January June **Human Molecular Genetics** Tom Strachan, Andrew Read, 2018-03-29 Human Molecular Genetics is an established and class proven textbook for upper level undergraduates and graduate students which provides an authoritative and integrated approach to the molecular aspects of human genetics While maintaining the hallmark features of previous editions the Fourth Edition has been completely updated It includes new Key Concepts at the beginning of each chapter and annotated further reading at the conclusion of each chapter to help readers navigate the wealth of information in this subject The text has been restructured so genomic technologies are integrated throughout and next generation sequencing is included Genetic testing screening approaches to therapy personalized medicine and disease models have been brought together in one section Coverage of cell biology including stem cells and cell therapy studying

gene function and structure comparative genomics model organisms noncoding RNAs and their functions and epigenetics have all been expanded Geographical Knowledge Construction and Production Archie K. Deen, 2015-09-02 Geographical Knowledge Construction and Production Teacher and Student Perspectives is a readable and illuminating account of three high school classrooms in suburban Atlanta Georgia It challenges the narrow focus of the Advanced Placement AP programme as a tool for admission into colleges and universities in the United States The research provides insight into the College Board s AP programme and argues for teaching and learning that is transformative and geared toward equipping students with the skills and knowledge necessary to confront the challenges of the 21st century In particular it advocates for geographic education that is anchored in the structure of the subject teasing wherever possible the contradictions and tensions embedded in the complexities of facts relating to people and places This book is essential reading for professors and students of education teachers and students of AP courses parents administrators and state and federal agencies vested in the AP programme

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