

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, CH<sub>2</sub>O, CH<sub>4</sub> and 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 & hydrogen*  
*HYDROPHOBIC*

# Chapter 27 4 Biology Reading Answers

**Williams & Wilkins Review**

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Kirkwood, Jacobus Donders, Christine Liff, 2020 Clinical Neuropsychology Study Guide and Board Review Second Edition provides an easy to study volume with sample questions and recommended readings that are specifically designed to help individuals prepare for the ABCN written examination This book can also be used as a teaching tool for graduate students and trainees at various levels The format is geared toward exam preparation Information is provided in a concise outlined manner with liberal use of bullets boxes illustrations and tables The guide also includes hundreds of mock exam questions and many recommended readings

PCAT Aftab S. Hassan, Williams & Wilkins Review, Betz, 1998 Based on Guidelines from the American Association of Colleges of Pharmacy this volume includes a skills based review of the latest content and a full length practice exam with solutions Readers will acquire the skills and the secrets that will lead to improved success including a 10 point prescription for conquering the exam

*Study Guide* George Karleskint, 1991

**Telecourse Cycles of Life** Gerald L. Kellogg, Starr, 1999-07 This guide provides students with a road map through the telecourse and contains assignments for reading viewing and doing related activities plus overviews of the content of each lesson and the accompanying video program For information about bundling it with any Starr textbook contact your Cengage Learning representative

*Raven Biology of Plants* Ray F. Evert, Peter H. Raven, Susan E. Eichhorn, 2012-03-02 Long acclaimed as the definitive introductory botany text Raven Biology of Plants Eighth Edition by Ray Evert Susan Eichhorn stands as the most significant revision in the book s history Every topic was updated with information obtained from the most recent primary literature making the book valuable for both students and professionals

**Complete Preparation for the AHPAT, 1999** Williams & Wilkins Review, 1998-04 Here is the most accurate and complete resource designed for students interested in applying for admission to health fields such as medical technology and medical therapy Reviews cover science knowledge verbal and quantitative ability and reading comprehension Students will value the topic outlines for the AHPAT exam the in depth allied health glossary and the full length sample test complete with solutions

Whitaker's Cumulative Book List, 1968

Bulletin of High Points in the Work of the High Schools of New York City, 1928

*The Oklahoma Teacher*, 1940

**Allied Health Professions Admissions Test** Aftab Hassan, Betz Guide, Aftab S Hassan, Ph. D., Williams & Wilkins Lippencott, 1995 This guide is aimed at students interested in allied health careers and covers science knowledge verbal and quantitative ability and reading comprehension based on the methods of active learning The text guides students through a system of self managed self paced study related to the AHAT Each section offers AHPAT style practice questions and there is also a model examination with answers and explanations The appendix includes a glossary allied health careers

Report of the Survey of the Schools of Maple Heights, Ohio, Made by the Institute of Educational Research, Division of Field Studies, Teachers College, Columbia University. George D. Strayer, Director of Survey; N. L. Engelhardt, Associate Director of Survey Columbia University. Teachers College. Institute of Educational Research. Division of Field Studies, 1929

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