

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

Biology Guide Chapter 4

Arshad Iqbal



Biology Guide Chapter 4:

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