

1. What are the four most commonly occurring elements in organisms?

Carbon, Hydrogen, Nitrogen, Oxygen

2. Define organic molecule.

A molecule that contains carbon (with the exception of carbonates - CO_2 and $-\text{CO}_3$)

3. Why is carbon the ideal building block for large molecules?

Carbon can make covalent bond with up to four other atoms

4. Define the following terms:

a. Metabolism:

The overall network of chemical reactions that occur in cells

b. Catabolism:

The set of reactions that break larger molecules down to smaller ones

c. Anabolism:

The set of reactions that assemble large molecules from smaller parts

5. Outline the theory of Vitalism and how Wohler's synthesis of Urea disproved the theory:

Vitalism was a theory that organic compounds could only be made by living things due to their "vital force." When Wohler was able to produce Urea (an organic compound) artificially in his lab it showed that organic compounds could still be formed without the "vital force" of life.

6. Complete the table of common organic molecule groups / parts:

Name of Group	Hydroxyl	Amine	Carboxyl	Methyl
Full Structure	$\text{S}-\text{O}-\text{H}$	$\text{S}-\text{N}-\text{H}$ $\quad \quad \quad \text{H}$	$\text{S}-\text{C}-\text{OH}$ $\quad \quad \quad \text{O}$	$\text{S}-\text{C}-\text{H}$ $\quad \quad \quad \text{H}$ $\quad \quad \quad \text{H}$
Simplified Notation	$-\text{OH}$	$-\text{NH}_2$	$-\text{COOH}$	$-\text{CH}_3$

7. Complete the table of common organic molecules:

Name	Ribose	Glucose	Saturated Fatty Acid	Amino Acid
Drawing				

8. Describe the structure a single water molecule and how this leads to its dipolar (polar) nature:

Two Hydrogen atoms are bonded to one Oxygen atom by covalent bonds. However, electrons in these bonds are not shared evenly so the Oxygen takes on a partial negative charge and Hydrogen takes

9. In the space below, draw three water molecules attracted to one another by hydrogen bonding. Include labels to show the polarity of the molecules and the hydrogen bonds:



a
partial
positive
charge

Molecules By Acme Answer Key

Iowa State Teachers' Association

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the Iowa State Teachers' Association text.

Molecules By Acme Answer Key:

UPSC-GS 2011-TO -2019 ACME EDITORIAL BOARD,2020-02-20 SOLVED PREVIOUS YEAR PAPER WITH ANSWER KEY

Greenie'S Path Greenie,2011-10-26 Greenies Path The Search for Christopher Hiltaychuk presents a unique look at an adopted child's life told from the child's perspective. It is also a testament to the people who chose to take the challenge of raising another's child as their own and loving that child as much as any birth parent could if not more. Author Greenie is grateful for the loving care that his adoptive parents gave him but he is also naturally very curious about the people who gave him up for adoption. Greenie is intrigued by the knowledge that there are people in this world with the same genetic history as his people with whom he shares an unspoken bond. He describes his life, thoughts and feelings for his birth parents, the people who felt their own world and circumstances were not ideal for raising a child at that time. He considers whether they ever wondered what happened to one of their own, one of their brothers, uncles or grandchildren. Greenies Path is the true story of the path his life has taken, the man he has become. No matter what paths lay ahead, Greenies Path captures that need for a sense of belonging to a family is such an integral foundation to their success in the world. **Statistics with the**

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