

Name: _____

MACROMOLECULES

Date: _____

I. ELEMENTS AND MACROMOLECULES IN ORGANISMS: Most common elements in living things are carbon, hydrogen, nitrogen, and oxygen. These four elements constitute about 95% of your body weight. All compounds can be classified in two broad categories --- **organic and inorganic compounds**. Organic compounds are made primarily of carbon. Carbon has four outer electrons and can form four bonds. Carbon can also bond to other carbon molecules forming double, triple, or quadruple bonds. Organic compounds also contain hydrogen. Since hydrogen has only one electron, it can form only single bonds.

Each small organic molecule can be a unit of a large organic molecule called a **macromolecule**. There are four classes of macromolecules (polysaccharides or carbohydrates, triglycerides or lipids, polypeptides or proteins, and nucleic acids such as DNA & RNA). Carbohydrates and lipids are made of only carbon, hydrogen, and oxygen (CHO). Proteins are made of carbon, hydrogen, oxygen, and nitrogen (CHON). Nucleic acids such as DNA and RNA contain carbon, hydrogen, oxygen, nitrogen, and phosphorus (CHON P). The body also needs trace amounts of other elements such as calcium, potassium, and sulfur for proper functioning of muscles, nerves, etc.

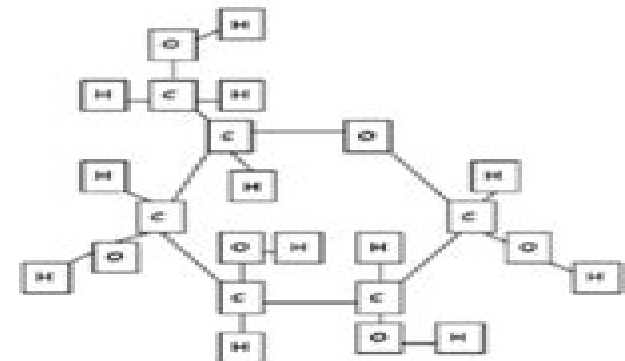
The four main classes of organic compounds (carbohydrates, lipids, proteins, and nucleic acids) that are essential to the proper functioning of all living things are known as polymers or macromolecules. All of these compounds are built primarily of carbon, hydrogen, and oxygen but in different ratios. This gives each compound different properties.

Questions:

1. What are the 4 main elements that make up 95% of an organism? _____
2. What are macromolecules? _____
3. Name the 4 classes of macromolecules: _____
4. What are the building blocks or subunits of macromolecules called? _____
5. Name 3 elements (symbols) your body needs trace amounts of for proper functioning _____

II. CARBOHYDRATES: are used by the body for energy and structural support in cell walls of plants and exoskeletons of insects and crustaceans. They are made of smaller subunits called **monosaccharides**. Monosaccharides have carbon, hydrogen, and oxygen in a 1:2:1 ratio. Monosaccharides or **simple sugars** include glucose, galactose, and fructose. Although their chemical formulas are the same, they have different structural formulas. These simple sugars combine to make disaccharides (double sugars like sucrose) and polysaccharides (long chains like cellulose, chitin, and glycogen).

Task: Color code the glucose molecule to the right -----> (carbon-black, hydrogen-yellow, and oxygen-red).

**Questions:**

6. Name 2 ways our body uses carbohydrates. _____
7. What are the monomers (subunits) that make up carbohydrates? _____
8. Monosaccharides are _____ sugars
9. Name 3 monosaccharides _____
10. What are disaccharides? Give an example _____
11. Long chains of sugar are _____. Name 3 _____

Elements And Macromolecules In Organisms Answers

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Chemical Evolution Bernd Markert, Stefan Fränzle, Simone Wünschmann, 2015-02-19 This book is written for researchers and students interested in the function and role of chemical elements in biological or environmental systems Experts have long known that the Periodic System of Elements PSE provides only an inadequate chemical description of elements of biological environmental or medicinal importance This book explores the notion of a Biological System of the Elements BSE established on accurate and precise multi element data including evolutionary aspects representative sampling procedures inter element relationships the physiological function of elements and uptake mechanisms The book further explores the concept Stoichiometric Network Analysis SNA to analyze the biological roles of chemical species Also discussed is the idea of ecotoxicological identity cards which give a first hand description of properties relevant for biological and toxicological features of a certain chemical element and its geo biochemically plausible speciation form The focus of this book goes beyond both classical bioinorganic chemistry and toxicology

Around the World in 18 Elements David Scott, 2015-11-06 Written with both students and educators in mind this book presents a tour of the elements found in the British A level syllabus Each chapter presents a key concept of chemistry in the context of the element instilling a wider background in chemistry to the reader which can then be tested by questions in the text Students of chemistry will enjoy this informative approach to revision while educators will gain inspiration for planning lessons and discussing concepts International baccalaureate and foundation year students will also benefit from the topics presented in this accessible textbook Find out more including resources at <http://www.rsc.org/learn/chemistry/resource/res00001996> around the world in 18 elements book

Bioengineering Mirjana Pavlovic, 2014-10-10 This book explores critical principles and new concepts in bioengineering integrating the biological physical and chemical laws and principles that provide a foundation for the field Both biological and engineering perspectives are included with key topics such as the physical chemical properties of cells tissues and organs principles of molecules composition and interplay in physiological scenarios and the complex physiological functions of heart neuronal cells muscle cells and tissues Chapters evaluate the emerging fields of nanotechnology drug delivery concepts biomaterials and regenerative therapy The leading individuals and events are introduced along with their critical research Bioengineering A Conceptual Approach is a valuable resource for professionals or researchers interested in understanding the central elements of bioengineering Advanced level students in biomedical engineering and computer science will also find this book valuable as a secondary textbook or reference

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Table of Contents Elements And Macromolecules In Organisms Answers

1. Understanding the eBook Elements And Macromolecules In Organisms Answers
 - The Rise of Digital Reading Elements And Macromolecules In Organisms Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Elements And Macromolecules In Organisms Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Elements And Macromolecules In Organisms Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Elements And Macromolecules In Organisms Answers
 - Personalized Recommendations
 - Elements And Macromolecules In Organisms Answers User Reviews and Ratings
 - Elements And Macromolecules In Organisms Answers and Bestseller Lists

5. Accessing Elements And Macromolecules In Organisms Answers Free and Paid eBooks
 - Elements And Macromolecules In Organisms Answers Public Domain eBooks
 - Elements And Macromolecules In Organisms Answers eBook Subscription Services
 - Elements And Macromolecules In Organisms Answers Budget-Friendly Options
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 - ePub, PDF, MOBI, and More
 - Elements And Macromolecules In Organisms Answers Compatibility with Devices
 - Elements And Macromolecules In Organisms Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Elements And Macromolecules In Organisms Answers
 - Highlighting and Note-Taking Elements And Macromolecules In Organisms Answers
 - Interactive Elements Elements And Macromolecules In Organisms Answers
8. Staying Engaged with Elements And Macromolecules In Organisms Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Elements And Macromolecules In Organisms Answers
9. Balancing eBooks and Physical Books Elements And Macromolecules In Organisms Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Elements And Macromolecules In Organisms Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Elements And Macromolecules In Organisms Answers
 - Setting Reading Goals Elements And Macromolecules In Organisms Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Elements And Macromolecules In Organisms Answers
 - Fact-Checking eBook Content of Elements And Macromolecules In Organisms Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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