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Introduction to  
Carbohydrates,  
Monosaccharides

Biochemistry of  
Carbohydrates

Carbohydrates-  
Definition,

classification, examples  
and functions

~~Carbohydrates +  
classification of  
carbohydrates~~

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of biological molecule |

Functions and

Classification

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Carbohydrates -

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Conformations ~~Fischer~~

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Ketoses, Fischer  
Projections and Epimers~~

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Chemistry 108 Chapter

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Carbohydrates 2

Introduction to

Carbohydrates

Carbohydrates are also known as\_\_\_\_\_.

Carbohydrates are an abundant biomolecule. □

More than 50% of the carbon in organic compounds is found in

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carbohydrates □ Plants use photosynthesis to store energy in \_\_\_\_\_, a simple sugar

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Question: Chemistry

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Notes Carbohydrates

Stereoisomers In

Carbohydrates

Carbohydrates Are

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Different Groups

Molecules Since They  
Have Carbon Atoms

Carrying Four The  
Simplest Three-carbon  
Sugar Is

Glyceraldehyde. This  
Sugar Exists As A Pair  
Of H. H H-C-OH

D-Glyceraldehyde

L-Glyceraldehyde

Enantiomers Have The

...

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Notes Carbohydrat ...

Question: Chemistry

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Notes Carbohydrates

Open Chain To Cyclic

Form Mechanism

(MECHANISM NOT

ON EXAM) H H<sub>2</sub>-OH

5 Turn On CH, OH OH

HO  $\square$ ,  $\square$  H Side H

Rotate  $\square$  H  $\square$   $\square$  OH- OH

OH OH OH H OH Coil

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CH<sub>2</sub>OH To The Back 2

OH 12 OH Close Ring

"CH<sub>2</sub>OH D-Glucose

Open-chain Form

Fischer Projection "CH

OH CHOH DH H

Anomeric Hemiacetal

OH OH Catom OH ...

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Carbohydrates  
Given a Fischer  
projection of a  
monosaccharide,

classify it as either  
aldoses or ketoses 2

Given a Fischer  
projection of a  
monosaccharide,  
classify it by the number  
of carbons it contains 3

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All carbohydrates are  
hydrates of carbon and  
they contain C, H and  
O. The ratio of

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hydrogen and oxygen in the majority of carbohydrates will be in 2:1 as in water. Some carbohydrates also contain nitrogen, phosphorous and sulfur. Majority of carbohydrates, not all, have the empirical formula  $(CH_2O)_n$ . In biochemistry, carbohydrates are denoted as saccharides.

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aldoses or ketoses. 2.  
Given a Fischer  
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classify it by the number of carbons it contains. 3. Given a Fischer

projection of a monosaccharide, identify it as a D-sugar or L-sugar. Chapter 12

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### Carbohydrates 2

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Carbohydrates are also known as\_\_\_\_\_.

Carbohydrates are an abundant biomolecule. □

More than 50% of the carbon in organic compounds is found in carbohydrates □ Plants use photosynthesis to store energy in\_\_\_\_\_, a simple sugar

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An Introduction to  
Carbohydrates

Carbohydrates are quite  
abundant in nature.

More than half of the  
carbon found in living  
organisms is contained  
in carbohydrate  
molecules, most of  
which are contained in

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plants. The primary reason for such an abundance is that a carbohydrate is produced by a series of chemical reactions that we call photosynthesis.

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Carbohydrates

sciences, animal nutrition spans an immense range from chemistry, biochemistry, anatomy and physiology to reproduction, immunology, pathology, and cell biology. Thus, nutrition is a foundational subject in livestock, poultry and fish production, as well as the rearing and health of companion animals.

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readers in various biological disciplines can integrate biochemistry and physiology with nutrition, health, and disease in mammals, birds, and other animal species (e.g., fish and shrimp). All chapters clearly provide the essential literature related to the principles of animal nutrition,

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without sun, lunar  
month, moon, moon's  
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of the earth, rotation  
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substance, temperature

scale, thermometer,

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mechanical energy, and

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beam of light, body

temperature, electrical

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characteristics of soil,  
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Choice Questions: 156

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