

Chemistry

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(Chapter 10) (Biomolecules) (Exercises)
(Class 12)

Question 10.1:

What are monosaccharides?

Answer 10.1:

Monosaccharides are carbohydrates that cannot be hydrolysed further to give simpler units of polyhydroxy aldehyde or ketone. Monosaccharides are classified on the bases of number of carbon atoms and the functional group present in them. Monosaccharides containing an aldehyde group are known as aldoses and those containing a keto group are known as ketoses. Monosaccharides are further classified as trioses, tetroses, pentoses, hexoses, and heptoses according to the number of carbon atoms they contain. For example, a ketose containing 3 carbon atoms is called ketotriose and an aldose containing 3 carbon atoms is called aldotriose.

Question 10.2:

What are reducing sugars?

Answer 10.2:

Reducing sugars are carbohydrates that reduce Fehling's solution and Tollen's reagent. All monosaccharides and disaccharides, excluding sucrose, are reducing sugars.

Question 10.3:

Write two main functions of carbohydrates in plants.

Answer 10.3:

Two main functions of carbohydrates in plants are:

- > Polysaccharides such as starch serve as storage molecules.
- > Cellulose, a polysaccharide, is used to build the cell wall.

Question 10.4:

Classify the following into monosaccharides and disaccharides.

Ribose, 2-deoxyribose, maltose, galactose, fructose and lactose

Answer 10.4:

Monosaccharides:

Ribose, 2-deoxyribose, galactose, fructose Disaccharides: Maltose, lactose

Question 10.5:

What do you understand by the term glycosidic linkage?

Answer 10.5:

Glycosidic linkage refers to the linkage formed between two monosaccharide units through an oxygen atom by the loss of a water molecule. For example, in a sucrose molecule, two monosaccharide units, glucose and β -fructose, are joined together by a glycosidic linkage.



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A Loxley



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1. Understanding the eBook Chemistry Chapter 10 Answers
 - The Rise of Digital Reading Chemistry Chapter 10 Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Chemistry Chapter 10 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 Chemistry Chapter 10 Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chemistry Chapter 10 Answers
 - Personalized Recommendations
 - Chemistry Chapter 10 Answers User Reviews and Ratings
 - Chemistry Chapter 10 Answers and Bestseller Lists

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5. Accessing Chemistry Chapter 10 Answers Free and Paid eBooks
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 - Chemistry Chapter 10 Answers Budget-Friendly Options
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 - Chemistry Chapter 10 Answers Compatibility with Devices
 - Chemistry Chapter 10 Answers Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chemistry Chapter 10 Answers
 - Highlighting and Note-Taking Chemistry Chapter 10 Answers
 - Interactive Elements Chemistry Chapter 10 Answers
 8. Staying Engaged with Chemistry Chapter 10 Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chemistry Chapter 10 Answers
 9. Balancing eBooks and Physical Books Chemistry Chapter 10 Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chemistry Chapter 10 Answers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Chemistry Chapter 10 Answers
 - Setting Reading Goals Chemistry Chapter 10 Answers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Chemistry Chapter 10 Answers
 - Fact-Checking eBook Content of Chemistry Chapter 10 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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web apr 26 2020 in this article we test your study on thermal engineering with thermal engineering questions and answers let's take an overview of thermal engineering as you know that thermal engineering is a branch of science which deals with the energies acquired by the gas and vapour the conversion of these energies into heat and