Chemistry

(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 asaldoses 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 atomsis 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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Table of Contents Jchshub Chemistry Chapter 12

- 1. Understanding the eBook Jchshub Chemistry Chapter 12
 - The Rise of Digital Reading Johnhub Chemistry Chapter 12
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Jchshub Chemistry Chapter 12
 - Exploring Different Genres
 - o Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Johnhub Chemistry Chapter 12
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Johnhub Chemistry Chapter 12
 - Personalized Recommendations
 - Jchshub Chemistry Chapter 12 User Reviews and Ratings
 - Jchshub Chemistry Chapter 12 and Bestseller Lists
- 5. Accessing Jchshub Chemistry Chapter 12 Free and Paid eBooks

- Jchshub Chemistry Chapter 12 Public Domain eBooks
- Jchshub Chemistry Chapter 12 eBook Subscription Services
- o Jchshub Chemistry Chapter 12 Budget-Friendly Options
- 6. Navigating Jchshub Chemistry Chapter 12 eBook Formats
 - o ePub, PDF, MOBI, and More
 - Jchshub Chemistry Chapter 12 Compatibility with Devices
 - Jchshub Chemistry Chapter 12 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Jchshub Chemistry Chapter 12
 - Highlighting and Note-Taking Johnhub Chemistry Chapter 12
 - Interactive Elements Jchshub Chemistry Chapter 12
- 8. Staying Engaged with Jchshub Chemistry Chapter 12
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - o Following Authors and Publishers Johnhub Chemistry Chapter 12
- 9. Balancing eBooks and Physical Books Jchshub Chemistry Chapter 12
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Johnhub Chemistry Chapter 12
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Jchshub Chemistry Chapter 12
 - Setting Reading Goals Johnhub Chemistry Chapter 12
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Jchshub Chemistry Chapter 12
 - Fact-Checking eBook Content of Jchshub Chemistry Chapter 12
 - 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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