



POLYSACCHARIDES

Recall Questions

Write a suitable short answer for each question given below.

1 What is the most abundant organic compound on Earth?

Answer: _____

2 During which process are carbohydrates produced in green plants?

Answer: _____

3 Name three foods that contain carbohydrates.

Answer: _____

4 What are the three elements that make up carbohydrates?

Answer: _____

5 In what ratio do hydrogen and oxygen combine in carbohydrates?

Answer: _____

6 Write the general reaction showing the formation of a disaccharide.

Answer: _____

7 What happens when disaccharides are hydrolyzed?

Answer: _____

8 What are the main physical properties of disaccharides?

Answer: _____

9 Why do you think disaccharides are easier to digest than polysaccharides?

Answer: _____

10 If glucose (a monosaccharide) combines with fructose, name the disaccharide formed.

Answer: _____



POLYSACCHARIDES

Recall Questions

Answer Key

1 What is the most abundant organic compound on Earth?

Answer: **_Carbohydrates. _ _ _ _**

2 During which process are carbohydrates produced in green plants?

Answer: **_ Photosynthesis. _ _ _ _ _**

3 Name three foods that contain carbohydrates.

Answer: **_ Potato, sweet potato, and grains _ _ _ _**

4 What are the three elements that make up carbohydrates?

Answer: **_Carbon (C), Hydrogen (H), and Oxygen (O). _ _**

5 In what ratio do hydrogen and oxygen combine in carbohydrates?

Answer: **_ In the ratio 2:1 (two hydrogen atoms for every one oxygen atom). _ _ _**

6 Write the general reaction showing the formation of a disaccharide.

Answer: **_Monosaccharide + Monosaccharide → Disaccharide + Water molecule. _**

7 What happens when disaccharides are hydrolyzed?

Answer: **_ They break down into the monosaccharides that formed them. _ _**

8 What are the main physical properties of disaccharides?

Answer: **_ _They are sweet, water-soluble crystals. _ _ _**

9 Why do you think disaccharides are easier to digest than polysaccharides?

Answer: **_ Because they consist of only two sugar units and require fewer steps to be broken down into absorbable monosaccharides. _**

10 If glucose (a monosaccharide) combines with fructose, name the disaccharide formed.

Answer: **_ _Sucrose. _ _ _ _ _ _ _ _**