



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 \rightarrow 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.** _____