

## Quiz

# POLYSACCHARIDES

## Multiple Choice Questions



Choose the correct answer from the options given.

1 Which of the following is a polysaccharide?

- a) Glucose
- b) Sucrose
- c) Starch
- d) Fructose

2 Which polysaccharide forms the structural component of plant cell walls?

- a) Glycogen
- b) Cellulose
- c) Starch
- d) Chitin

3 What is the main storage carbohydrate in animals?

- a) Starch
- b) Glucose
- c) Cellulose
- d) Glycogen

4 Which of the following statements about polysaccharides is true?

- a) They are sweet and water-soluble
- b) They are formed by one sugar molecule
- c) They are made up of many monosaccharide units
- d) They are always simple sugars

5 Which enzyme breaks down starch into maltose during digestion?

- a) Amylase
- b) Lipase
- c) Protease
- d) Lactase

6 Which of the following foods is rich in starch?

- a) Meat
- b) Eggs
- c) Potato
- d) Milk

7 What is the main function of polysaccharides in living organisms?

- a) Genetic coding
- b) Structural support and energy storage
- c) Enzyme regulation
- d) Hormone transport

8 Cellulose cannot be digested by humans because:

- a) It is insoluble in water
- b) It contains nitrogen
- c) Humans lack the enzyme to break it down
- d) It is made of protein

9 Glycogen is mainly stored in which parts of the human body?

- a) Lungs and heart
- b) Liver and muscles
- c) Skin and hair
- d) Kidneys and intestines

10 When polysaccharides are broken down, they produce:

- a) Proteins
- b) Amino acids
- c) Monosaccharides
- d) Fatty acids

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### Answer Key

1. c) Starch
2. b) Cellulose
3. d) Glycogen
4. c) They are made up of many monosaccharide units
5. a) Amylase
6. c) Potato
7. b) Structural support and energy storage
8. c) Humans lack the enzyme to break it down
9. b) Liver and muscles
10. c) Monosaccharides