

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