



QUIZ TIME

Bio- chemistry

Lec 14

Done by:

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Which of the following carbohydrates does not require digestion before absorption in the small intestine?

- A) Starch
- B) Sucrose
- C) Lactose
- D) Glucose

Answer: D

The main source of energy for most human cells is

- A) Amino acids
- B) Glucose
- C) Fatty acids
- D) Ketone bodies

Answer: B

Which of the following is a polysaccharide present in the human diet?

- A) Glycogen
- B) Lactose
- C) Maltose
- D) Fructose

Answer: A

In carbohydrate metabolism, anabolism refers to

- A) Breakdown of glycogen into glucose
- B) Conversion of glucose into ATP
- C) Synthesis of larger molecules from smaller ones
- D) Oxidation of glucose in glycolysis

Answer: C

The digestion of carbohydrates mainly involves

- A) Hydrolysis of glycosidic bonds
- B) Dehydration synthesis of monosaccharides
- C) Hydrogenation of double bonds
- D) Oxidation of glucose

Answer: A

Cellulose in the human diet

- A) Is digested in the stomach
- B) Is absorbed directly in the small intestine
- C) Cannot be digested by human enzymes
- D) Is broken down into galactose

Answer: C

Which of the following best describes the first step of carbohydrate digestion in the mouth?

- A) Hydrolysis of β -1,4 glycosidic bonds in cellulose by ptyalin
- B) Hydrolysis of α -1,4 glycosidic bonds in cooked starch by salivary amylase
- C) Hydrolysis of sucrose into glucose and fructose by salivary maltase
- D) Hydrolysis of α -1,6 bonds in amylopectin by ptyalin

Answer: B

:Salivary amylase (ptyalin) has an optimum pH close to

- A) 4.0
- B) 5.5
- C) 6.7–6.8
- D) 8.5

Answer: C

?Which ion is required to activate salivary amylase

- A) Sodium
- B) Calcium
- C) Chloride
- D) Magnesium

Answer: C

:The main end products of salivary amylase activity in the mouth are

- A) Maltose and glucose
- B) Glucose and galactose
- C) Dextrins (partial hydrolysis products)
- D) Cellobiose and fructose

Answer: C

?Why does carbohydrate digestion stop in the stomach after a few minutes

- A) The starch is fully digested before entering the stomach
- B) Low temperature inactivates the enzyme
- C) High acidity denatures salivary amylase
- D) Gastric amylase replaces salivary amylase

Answer: C

?Which of the following statements about carbohydrate digestion in the stomach is false

- .A) No significant new digestion of carbohydrates occurs in the stomach
- .B) Salivary amylase continues working until the pH drops
- .C) Gastric juice contains an enzyme that digests starch
- .D) The main role of the stomach for carbohydrates is mixing and storage

Answer:c