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# Carbohydrate Metabolism (Classification of Carbohydrates) Exam Questions with Correct Answers

**Carbohydrates - ANSWER-**Sugars and polymers of sugars; the primary source of energy for the cell. They always contain the elements carbon, hydrogen and oxygen.

**Glycosidic Bond - ANSWER-**The bond between the hydroxyl group of the C-1 carbon of one sugar and a hydroxyl group of another sugar.

**Metabolism - ANSWER-**The sum of all biochemical reactions that occur within the cell. This includes the building up (anabolism) and the breaking down (catabolism) of the key biological molecules.

**Glycolysis - ANSWER—** The first step in Carbohydrate Metabolism that occurs in almost every cell.

- A series of reactions in the cytoplasm of the cell, which converts glucose or other hexoses into lactate or pyruvate. Decreases serum glucose by approximately 5% to 7% in normal coagulated blood 1.5 to 2hrs after food has been ingested.

**Aerobic - ANSWER-**Under these conditions, (indicating a presence in O<sub>2</sub>), glycolysis converts glucose to pyruvate and ATP, and sets the stage for the complete oxidation of glucose to CO<sub>2</sub> and H<sub>2</sub>O, and energy (heat and ATP).

**Anaerobic - ANSWER-**Under these conditions, (indicating an absence of O<sub>2</sub>), glucose is converted to pyruvate, which is further converted to lactic acid, and a small amount of ATP.

**Krebs Cycle - ANSWER-**Also known as the citric acid cycle or the tricarboxylic acid cycle. It is a cyclic series of reactions in which acetyl groups from pyruvate (produced in glycolysis), are broken down into CO<sub>2</sub> accompanied by the formation of energy molecules (ATP) and high-energy electron carriers. It occurs in the mitochondria under aerobic conditions.

**Electron Transport Chain - ANSWER-**Also known as oxidative phosphorylation. It provides the cells main source of energy, ATP. This energy is extracted in the mitochondria from the high-energy electron carriers produced in the Krebs cycle under aerobic conditions.

**Carbohydrate Compounds Forms This When Oxidized - ANSWER-**Energy.

**Two Groups Contained in Carbohydrates - ANSWER-**Carbonyl Group (C=O) and Hydroxyl Functional Group (-OH).

# Exams Of Carbohydrates With Answers

**VM Jensen**



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