Questions to Ponder Exam 2, Fall 2022

"Biograilability = ingested nutrient is digested & absorbed which becomes available to the body"

Proteins

- 1. What are the structures of proteins and amino acids?
 - Amino acids
 - o Building blocks for proteins
 - Formed mostly of carbon, hydrogen, oxygen & nitrogen
 - Branching carbon backbone, acid (carboxyl) group & amino group
 - 3 branched-chain amino acids- leucine, isoleucine & valine each with a branching carbon backbone
 - Protein
 - 28 different amino acids make up all proteins via peptide bonds (4 kcal per gram)
 - Amino acids are linked together by chemical bonds (peptide bonds) to form proteins
 - Bonds are difficult to break, but heat, scids, & enzymes can do so during cooking & chemical digestion
 - Bonds form between smino group of 1 smino acid with the acid (carboxyl) group of snother
 - Most proteins are polypeptides
- 2. What is an essential amino acid? What are the nine essential amino acids?
 - Essential amino acid: cannot be synthesized by humans, must be consumed from diet
 - Histlidine
 - Isoleucine
 - o Leucine
 - o Lysine
 - o Methionine
 - o Phenylalanine
 - Threonine
 - o Tryptophan
 - Valine
- 3. What are the functions of proteins in the body? How much protein does an average person need?
 - Building blocks of body components
 - Fluid balance maintenance
 - Acid-base balance
 - Building blocks of hormones & enzymes.
 - Immune function

Ponder Tales Study Guide Answers

Albert A Gayle

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