
Biology Major Field Test Study Set 2024 with Complete Solutions.

4 Biomolecules and Monomers - ANSWER-Protein (amino acids) Carbohydrates (simple sugars) Lipids (glycerol and fatty acids) Nuclei acids (nucleotides)

dipeptides - ANSWER-two amino acids bonded together

what is the general fatty acid formula - ANSWER- $\text{CH}_3(\text{CH}_2)_n\text{COOH}$ where n = an even number between 12 and 24

explain identifying saturated vs. unsaturated fats - ANSWER-saturated: only single bonds in hydrocarbon chain... unsaturated: one or more double bonds

glycerides - ANSWER-glycerol and 3 fatty acids

Levels of Protein Structure - ANSWER-1. order of amino acids 2. alpha-helices or beta-pleated sheets 3. bonding b/w a.a. side chains 4. multi-subunit structure

nucleotide is composed of - ANSWER-phosphate group; sugar group; nitrogenous base

V_{max} - ANSWER-maximum reaction rate at which point substrate is saturated with enzyme

Feedback Inhibition - ANSWER-end-product of enzyme catalyzed rxn. blocks original enz.

Competitive Inhibition - ANSWER-molecules compete with substrate for enzyme's active sites

irreversible inhibitors - ANSWER-chemically and covalently bind to active site; rendering it permanently inactive

psuedoimreversible inhibitors - ANSWER-extremely high affinities for active site; hard to displace

noncompetitive inhibitors - ANSWER-do not compete for active site but act elsewhere on enz.; altering 3D shape

photosynthesis - ANSWER-anabolic process that converts sunlight into energy stored in the phosphate bonds of ATP, then more permanently stored in bonds of organic carbon compounds

Ets Major Field Test Biology Study Guide

Michal Rosen-Zvi



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