
ACS Biochemistry Exam Questions With Complete Solutions

Metabolism (catabolism and anabolism) - ANSWERS **Metabolism:** sum of total chemical reactions in an organism, also the method by which cells extract and use energy from their environment.

Catabolism: The process by which stored nutrients and ingested foods are converted to a usable form of energy. It produces simple products CO_2 , H_2O , NH_3 , and building blocks such as sugars and fats that are used in anabolism.

Anabolism: the process by which simple products and building blocks of catabolism are used to create complex biological products that contribute to organismal growth and development. It also uses the energy produced in catabolism to do biological work.

Properties of cells - ANSWERS **Metabolism:** undergoing catabolic and anabolic processes.

Reproduction: cell populations grow via asexual reproduction.

Mutation: during growth and reproduction, cells sometimes make mistakes, leading to mutations and evolution.

Respond to environment: metabolic pathways respond to signals, including light, touch, hormones, and nutrients, that can turn the pathways on or off.

Speed and efficiency: cell operations are highly specific to maximize targeting and efficiency.

Similar building blocks: most species are very similar at the cellular level.

What accounts for water's unique properties? - ANSWERS **Hydrogen bonding**

Acs General Organic Biochemistry Practice Exam

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