
2024 ACS BIOCHEMISTRY EXAM STUDY GUIDE | QUESTIONS AND CORRECT DETAILED ANSWERS | LATEST EDITION | GRADED A+

Metabolism (catabolism and anabolism) correct 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 CO₂, H₂O, NH₃, 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 correct 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.

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Professional Careers Sourcebook Kathleen M. Savage,Charity Anne Dorgan,1990 Provides a comprehensive overview of the literature and professional organizations that aid career planning and related research for 111 careers requiring college degrees or specialized education *ERIC Identifier Authority List - (IAL) 1992* Carolyn R. Weller,Jim Houston,1992

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