



Microbiology Study Guide Unit 2

Define metabolism: The sum of all biological chemical reactions inside a cell or organism
Differences in catabolism and anabolism: Catabolism is an enzyme-regulated chemical reaction that releases energy. Complex organic compounds such as glucose, amino acids, glycerol and fatty acids are broken down into simpler ones. The energy of catabolic reactions is used to drive the anabolic reactions. Anabolism is also enzyme regulated but requires energy for taking the simpler broken down components from the catabolism phase and building them into complex molecules such as starch, proteins and lipids
What is the role of ATP?

ATP is the driving force for catabolic and anabolic reactions. ATP stores energy that is produced from the catabolic reactions which is later released to drive the anabolic reaction and other cellular work. ATP is stored energy in cells (phosphate groups held together by high energy reacting bonds) ATP is required for synthesis and some of the energy is given off as heat
What are enzymes and their components? Enzymes are biological catalysts (substances that speed up a chemical reaction without themselves being permanently altered)

Components:

Apoenzyme is the protein portion of an enzyme. Inactive by themselves, must be activated by cofactors
Cofactor- non protein portion (IE: ions of iron, zinc, magnesium and calcium) ****If the cofactor is an organic molecule, it is called a coenzyme
Holoenzyme- The apoenzyme+cofactor forms the holoenzyme. It is the active enzyme. If you remove the cofactor, the apoenzyme will not function. **Cofactors may assist the enzyme by accepting atoms removed from the substrate or by donating atoms required by the substrate. **Substrate**=the specific substance that an enzyme will act on) **The crucial function of enzymes is to speed up biochemical reactions at temperatures that are compatible with the normal functioning of the cell.
What are metabolic pathways? The sequence of enzyme catalyzed chemical reactions within a cell.
What is the Krebs' cycle? A pathway that converts two-carbon compounds to CO₂, transferring electrons to NAD⁺ and other carriers; also called tricarboxylic acid (TCA) cycle or citric acid cycle
A series of biochemical reactions in which a large amount of potential chemical energy stored in acetyl CoA is released step by step.

In the cycle, a series of oxidations and reductions transfer that potential energy in the form of electrons to electron carrier coenzymes (mostly NAD⁺). The pyruvic acid derivatives are oxidized and the coenzymes are produced. Krebs' cycle is for lipid catabolism. Glycerol is converted into dihydroxyacetone phosphate (DHAP) and catabolized via glycolysis and the Krebs' cycle. Fatty acids undergo beta-oxidation, in which carbon fragments are spit off two at a time to form acetyl CoA which is catabolized by Krebs' cycle.

What is glycolysis? **Glycolysis creates 2 ATP molecules
The main pathway for oxidation of glucose to pyruvi

Microbiology Unit Study Guide

Robin Phillips



Microbiology Unit Study Guide:

Microbiology Study Guide Patrick Leonardi,2010 *Study Guide and Procedure Checklist Manual for Kinn's The Medical Assistant - E-Book* Brigitte Niedzwiecki,Julie Pepper,2022-09-08 Designed to support the trusted content in Kinn s The Medical Assistant 15th Edition this study guide is an essential review and practice companion to reinforce key concepts encourage critical thinking and help you apply medical assisting content This robust companion guide offers a wide range of activities to strengthen your understanding of common administrative and clinical skills including certification preparation questions a review of medical terminology and anatomy and application exercises Trusted for more than 65 years as a key part of the journey from classroom to career it also features competency checklists to accurately measure your progress and performance from day one until you land your first job as a medical assistant Comprehensive coverage of all administrative and clinical procedures complies with accreditation requirements Approximately 190 step by step procedure checklists enable you to assess and track your performance for every procedure included in the textbook Chapter by chapter correlation with the textbook allows you to easily follow core textbook competencies Matching and acronym activities reinforce your understanding of medical terminology anatomy and physiology and chapter vocabulary Short answer and fill in the blank exercises strengthen your comprehension of key concepts Multiple choice questions help you prepare for classroom and board exams Workplace application exercises promote critical thinking and job readiness before you enter practice Internet exercises offer ideas for expanded and project based learning NEW Content aligns to 2022 Medical Assisting educational competencies NEW Advanced Clinical Skills unit features three new chapters on IV therapy radiology basics and radiology positioning to support expanded medical assisting functions NEW Coverage of telemedicine enhanced infection control related to COVID 19 and catheterization NEW Procedures address IV therapy limited scope radiography applying a sling and coaching for stool collection UPDATED Coverage of administrative functions includes insurance coding privacy security and more EXPANDED Information on physical medicine and rehabilitation EXPANDED Content on specimen collection including wound swab nasal and nasopharyngeal specimen collections [Study Guide and Procedure Checklist Manual for Kinn's The Clinical Medical Assistant - E-Book](#) Brigitte Niedzwiecki,Julie Pepper,2022-06-23 Designed to support the trusted content in Kinn s The Clinical Medical Assistant 14th Edition this study guide and procedure checklist manual is the essential review and practice companion to reinforce key concepts encourage critical thinking and ensure your mastery of clinical medical assisting content This robust companion guide offers a wide range of exercises to reinforce your understanding of common clinical skills including new certification preparation questions that offer additional practice for certification exams a new chapter review of medical terminology and anatomy and need to know workplace applications Trusted for more than 60 years Kinn s Clinical Study Guide and Procedure Checklist Manual also features competency checklists to clearly assess your performance and progression from day one until you land your first job as a Medical Assistant Hundreds of practice questions

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