

## Cellular Energy Study Guide

1. What is the difference between anabolic and catabolic pathways?

Catabolic pathways release energy by breaking down complex molecules into simpler compounds.

Anabolic pathways, called biosynthetic pathways, consume energy to build complex molecules from simpler ones.

2. The study of how energy flows through living systems is called bioenergetics.

3. Give 2 examples of catabolic pathways and 2 examples of anabolic pathways.

### **Catabolic Pathways:**

#### - Glycolysis:

Process: Glycolysis is a catabolic pathway that occurs in the cytoplasm of cells and involves the breakdown of glucose (a six-carbon sugar) into two molecules of pyruvate (a three-carbon compound).

Energy Release: During glycolysis, a small amount of energy is released, and some of it is captured in the form of ATP and NADH.

#### - Krebs Cycle (Citric Acid Cycle):

Process: The Krebs cycle takes place in the mitochondria and is part of the aerobic respiration process. It involves the further breakdown of pyruvate produced during glycolysis into carbon dioxide, generating NADH and FADH<sub>2</sub>.

Energy Release: The Krebs cycle contributes to the production of additional NADH and FADH<sub>2</sub>, which carry high-energy electrons to the electron transport chain.

### **Anabolic Pathways:**

#### - Protein Synthesis:

Process: Protein synthesis is an anabolic pathway that occurs in the ribosomes of cells. It involves the assembly of amino acids into polypeptide chains, which then fold into functional proteins.

Energy Input: The synthesis of proteins requires the input of energy in the form of ATP.

#### - Photosynthesis:

Process: Photosynthesis is an anabolic pathway that occurs in the chloroplasts of plant cells. It involves the synthesis of glucose from carbon dioxide and water, using light energy captured by chlorophyll.

Energy Input: Photosynthesis requires energy from sunlight to drive the conversion of carbon dioxide and water into glucose and oxygen.

4. Describe each of the following:

Energy is the capacity to cause change

- Kinetic Energy – energy associated with motion
- Potential Energy – energy that matter possesses because of its location or structure
- Thermal Energy – kinetic energy associated with random movement of atoms or molecules
- Chemical Energy – potential energy available for release in a chemical reaction

# Cellular Energy Study Guide Answers

**Melissa Edmonds, Jodene Smith**



## Cellular Energy Study Guide Answers:

*Student Study Guide/solutions Manual to Accompany Foundations of Inorganic, Organic, and Biological Chemistry* Katherine J. Denniston,1995 This student study guide has been written to accompany Foundations of Inorganic Organic and Biological Chemistry by Caret Denniston and Topping It was designed to complement the text not to be used in place of the text Each chapter of the study guide contains the following sections reorganized and expanded set of learning goals concise chapter summary in chapter solved problems list of key terms review problems Preface Clinical Neurology-Shelf Specialty Review and Study Guide Whitten,2015-09-25 Includes Multiple choice fact scenario and case based questions Correct answers and explanations to help you quickly master specialty content All questions have keywords linked to additional online references The mission of StatPearls Publishing is to help you evaluate and improve your knowledge base We do this by providing high quality peer reviewed educationally sound questions written by leading educators StatPearls Publishing *Instructor's Manual and Study Guide Answers for the Human Body in Health and Disease* Barbara Janson Cohen,Memmler,1996 **Radiology-Neuroradiology Specialty Review and Study Guide** Clint Winston,2015-09-25 Includes Multiple choice fact scenario and case based questions Correct answers and explanations to help you quickly master specialty content All questions have keywords linked to additional online references The mission of StatPearls Publishing is to help you evaluate and improve your knowledge base We do this by providing high quality peer reviewed educationally sound questions written by leading educators StatPearls Publishing **NCLEX-RN Review Guide** Cynthia Chernecky,Nancy Stark,Lori Schumacher,2008 A useful review tool in preparing for the NCLEX RN examination this guide is based on the latest NCLEX RN test plan including alternate item formats More than 2 000 practice questions are included in the book CD ROM package along with test taking strategies rationales and top 10 challenge questions to test your knowledge in each subject area *Study Guide and Solutions Manual for Seager/Slabaugh's Chemistry for Today* Seager/Slabaugh,2004 The fifth edition of the Study Guide and Student Solutions Manual has been updated to reflect all of the changes to the text This ancillary tests the student on the learning objectives in each chapter and provides answers to all of the even numbered end of chapter exercises New additional activities have been added to include a review of each section of the chapter and a section entitled Tying It All Together with a Laboratory Application *Study Guide* George Karleskint,1991 **Leveled Text-Dependent Question Stems: Science** Melissa Edmonds,Jodene Smith,2017-02-01 Help develop kindergarten through twelfth grade students critical thinking and comprehension skills with Leveled Text Dependent Question Stems Science This book includes a variety of high interest science texts as well as specific text dependent questions that are provided at four different levels to help teachers differentiate and meet the needs of all students With this easy to use resource teachers will learn strategies to effectively guide students in analyzing informational text to build their comprehension skills and use evidence to justify their responses **Modules** McDougal Littell Incorporated,2005 **Study Questions and Problems in**

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