

Microbiology Exam 2 chapters 6-11

Chapter 6 Metabolism

- **Photosynthesis**
 - Process of harvesting the radiant energy of sunlight to power the synthesis of organic compounds from CO_2
 - Performed by plants, algae, and some bacteria
 - Summary:
$$6\text{CO}_2 + 12\text{H}_2\text{X} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 12\text{X} + 6\text{H}_2\text{O}$$
- **Photosynthesis**
 - Two distinct stages:
 - Light reactions- capture the energy from light and convert it to chemical energy in the form of ATP
 - Dark reactions- use the energy (ATP) to synthesize organic compounds from CO_2
 - Light is captured by photosynthetic pigments which release electrons (used in an electron transport chain) in response to light. Pigments include:
 - Chlorophylls- found in plants, algae, and cyanobacteria ex: oxygenic
 - Bacteriochlorophylls- found in purple and green bacteria ex: anoxygenic
 - **Aerobic Respiration**
 - Respiration is the process in which electrons are stripped from a chemical energy source and transferred to an electron transport chain, generating a proton motive force that is used to synthesize ATP.
 - Aerobic Respiration uses O_2 as the terminal electron acceptor of the electron transport chain.
- **Glucose Oxidation**
 - The process of oxidizing a molecule of glucose to produce energy (ATP) requires five processes:
 - Glycolysis- the process of oxidizing glucose, a 6-carbon molecule, into 2 pyruvates (3-carbon molecules)
 - Transition Step- The conversion of pyruvate into Acetyl-coA through the removal of CO_2
 - TCA (Krebs) Cycle- Oxidations of Acetyl-coA molecules, releasing CO_2
 - Note: In the processes above, oxidation removes electrons (and protons) which are transferred to electron carrier molecules (NADH and FADH_2)
 - Electron Transport- The flow of electrons along a membrane causes protons to be ejected from the matrix of the mitochondria

Microbiology Chapter 6 Test

JA Banks



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Table of Contents Microbiology Chapter 6 Test

1. Understanding the eBook Microbiology Chapter 6 Test
 - The Rise of Digital Reading Microbiology Chapter 6 Test
 - Advantages of eBooks Over Traditional Books
2. Identifying Microbiology Chapter 6 Test
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Microbiology Chapter 6 Test
 - User-Friendly Interface
4. Exploring eBook Recommendations from Microbiology Chapter 6 Test
 - Personalized Recommendations

- Microbiology Chapter 6 Test User Reviews and Ratings
- Microbiology Chapter 6 Test and Bestseller Lists
- 5. Accessing Microbiology Chapter 6 Test Free and Paid eBooks
 - Microbiology Chapter 6 Test Public Domain eBooks
 - Microbiology Chapter 6 Test eBook Subscription Services
 - Microbiology Chapter 6 Test Budget-Friendly Options
- 6. Navigating Microbiology Chapter 6 Test eBook Formats
 - ePub, PDF, MOBI, and More
 - Microbiology Chapter 6 Test Compatibility with Devices
 - Microbiology Chapter 6 Test Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Microbiology Chapter 6 Test
 - Highlighting and Note-Taking Microbiology Chapter 6 Test
 - Interactive Elements Microbiology Chapter 6 Test
- 8. Staying Engaged with Microbiology Chapter 6 Test
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Microbiology Chapter 6 Test
- 9. Balancing eBooks and Physical Books Microbiology Chapter 6 Test
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Microbiology Chapter 6 Test
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Microbiology Chapter 6 Test
 - Setting Reading Goals Microbiology Chapter 6 Test
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Microbiology Chapter 6 Test
 - Fact-Checking eBook Content of Microbiology Chapter 6 Test

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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