

CELLULAR RESPIRATION QUESTIONS

1. Write the balanced word and chemical equation for aerobic respiration.
→ Glucose + oxygen → carbon dioxide + water + energy
$$C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O + 36 - 38 \text{ ATP}$$
2. What is the purpose of cellular respiration?
→ Cellular respiration is the process that occurs in the mitochondria of organisms (animals and plants) to break down sugar in the presence of oxygen to release energy in the form of ATP.
3. Why is NADH called an electron shuttle bus?
→ It is called an electron shuttle bus because it picks up electrons/ becomes reduced when another molecule is oxidized and then transfers the electrons to another molecule.
4. What are the two mechanisms in which ATP is generated? Briefly describe each mechanism.
→ Glycolysis: The enzymes breakdown 1 molecule of glycolysis into 2 molecules of pyruvate. Some high – energy ATP and NADH is synthesized.
Citric acid cycle: Acetyl – CoA molecules from pyruvate oxidation enter a metabolic cycle, where the acetyl group is completely oxidized to CO_2 . In the process, ATP and the electron carriers NADH and $FADH_2$ are synthesized.
5. Make a comparison chart to show how much ATP is produced from substrate level phosphorylation versus oxidative phosphorylation (use the equivalent amount of ATP for coenzymes).
→ Substrate level phosphorylation: 2 from glycolysis, 2 from Krebs
Oxidative phosphorylation: chemiosmosis and 32 from Electron transport chain
6. Define the following terms:
 - a. Aerobic cellular respiration
 - b. Anaerobic cellular respiration
 - c. Substrate level phosphorylation
 - d. Oxidative phosphorylation
 - e. Chemiosmosis
 - f. Carboxylation→
 - A. Aerobic Cellular Respiration is a process that uses oxygen to harvest energy from organic compounds
 - B. Anaerobic cellular respiration is a process that uses a final inorganic oxidizing agent other than oxygen to produce energy
 - C. Substrate level phosphorylation: The formation of ATP from the direct transfer of a phosphate group a substrate to ADP
 - D. Oxidative phosphorylation: A process that forms ATP using energy transferred indirectly from a series of redox reactions.

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Table of Contents 44 Overview Of Cellular Respiration Study Guide Answer Key 238293

1. Understanding the eBook 44 Overview Of Cellular Respiration Study Guide Answer Key 238293
 - The Rise of Digital Reading 44 Overview Of Cellular Respiration Study Guide Answer Key 238293
 - Advantages of eBooks Over Traditional Books
2. Identifying 44 Overview Of Cellular Respiration Study Guide Answer Key 238293
 - 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 44 Overview Of Cellular Respiration Study Guide Answer Key 238293
 - User-Friendly Interface
4. Exploring eBook Recommendations from 44 Overview Of Cellular Respiration Study Guide Answer Key 238293
 - Personalized Recommendations
 - 44 Overview Of Cellular Respiration Study Guide Answer Key 238293 User Reviews and Ratings
 - 44 Overview Of Cellular Respiration Study Guide Answer Key 238293 and Bestseller Lists
5. Accessing 44 Overview Of Cellular Respiration Study Guide Answer Key 238293 Free and Paid eBooks
 - 44 Overview Of Cellular Respiration Study Guide Answer Key 238293 Public Domain eBooks
 - 44 Overview Of Cellular Respiration Study Guide Answer Key 238293 eBook Subscription Services
 - 44 Overview Of Cellular Respiration Study Guide Answer Key 238293 Budget-Friendly Options
6. Navigating 44 Overview Of Cellular Respiration Study Guide Answer Key 238293 eBook Formats

- ePub, PDF, MOBI, and More
- 44 Overview Of Cellular Respiration Study Guide Answer Key 238293 Compatibility with Devices
- 44 Overview Of Cellular Respiration Study Guide Answer Key 238293 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 44 Overview Of Cellular Respiration Study Guide Answer Key 238293
 - Highlighting and Note-Taking 44 Overview Of Cellular Respiration Study Guide Answer Key 238293
 - Interactive Elements 44 Overview Of Cellular Respiration Study Guide Answer Key 238293
- 8. Staying Engaged with 44 Overview Of Cellular Respiration Study Guide Answer Key 238293
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 44 Overview Of Cellular Respiration Study Guide Answer Key 238293
- 9. Balancing eBooks and Physical Books 44 Overview Of Cellular Respiration Study Guide Answer Key 238293
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 44 Overview Of Cellular Respiration Study Guide Answer Key 238293
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 44 Overview Of Cellular Respiration Study Guide Answer Key 238293
 - Setting Reading Goals 44 Overview Of Cellular Respiration Study Guide Answer Key 238293
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 44 Overview Of Cellular Respiration Study Guide Answer Key 238293
 - Fact-Checking eBook Content of 44 Overview Of Cellular Respiration Study Guide Answer Key 238293
 - 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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