

CELLULAR RESPIRATION QUESTIONS

1. Write the balanced word and chemical equation for aerobic respiration.

→ Glucose + oxygen → carbon dioxide + water + energy



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 CO₂. In the process, ATP and the electron carriers NADH and FADH₂ 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

c. Substrate level phosphorylation

e. Chemiosmosis

→

b. Anaerobic cellular respiration

d. Oxidative phosphorylation

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.

44 Overview Of Cellular Respiration Study Guide Answer Key

JE Gale



44 Overview Of Cellular Respiration Study Guide Answer Key:

This book delves into 44 Overview Of Cellular Respiration Study Guide Answer Key. 44 Overview Of Cellular Respiration Study Guide Answer Key is a crucial topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into 44 Overview Of Cellular Respiration Study Guide Answer Key, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to 44 Overview Of Cellular Respiration Study Guide Answer Key
 - Chapter 2: Essential Elements of 44 Overview Of Cellular Respiration Study Guide Answer Key
 - Chapter 3: 44 Overview Of Cellular Respiration Study Guide Answer Key in Everyday Life
 - Chapter 4: 44 Overview Of Cellular Respiration Study Guide Answer Key in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of 44 Overview Of Cellular Respiration Study Guide Answer Key. The first chapter will explore what 44 Overview Of Cellular Respiration Study Guide Answer Key is, why 44 Overview Of Cellular Respiration Study Guide Answer Key is vital, and how to effectively learn about 44 Overview Of Cellular Respiration Study Guide Answer Key.
3. In chapter 2, this book will delve into the foundational concepts of 44 Overview Of Cellular Respiration Study Guide Answer Key. This chapter will elucidate the essential principles that must be understood to grasp 44 Overview Of Cellular Respiration Study Guide Answer Key in its entirety.
4. In chapter 3, this book will examine the practical applications of 44 Overview Of Cellular Respiration Study Guide Answer Key in daily life. This chapter will showcase real-world examples of how 44 Overview Of Cellular Respiration Study Guide Answer Key can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of 44 Overview Of Cellular Respiration Study Guide Answer Key in specific contexts. This chapter will explore how 44 Overview Of Cellular Respiration Study Guide Answer Key is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about 44 Overview Of Cellular Respiration Study Guide Answer Key. The final chapter will summarize the key points that have been discussed throughout the book.
The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of 44 Overview Of Cellular Respiration Study Guide Answer Key.

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