

Study Guide

CHAPTER 8

Section 3: Cellular Respiration

In your textbook, read about cellular respiration and glycolysis.

Use each of the terms below only once to complete the passage.

~~aerobic~~ ~~anaerobic~~ ~~ATP~~ ~~cellular respiration~~ ~~cytoplasm~~ ~~energy~~
~~glucose~~ ~~glycolysis~~ ~~mitochondria~~ ~~NADH~~ ~~oxygen~~

Organisms obtain energy in a process called (1) Cellular respiration. This process harvests electrons from carbon compounds, such as (2) glucose, and uses that energy to make (3) ATP. ATP is used to provide (4) energy for cells to do work. In (5) glycolysis, glucose is broken down into pyruvate. Glycolysis is a(n) (6) anaerobic process because it does not require oxygen. Glycolysis takes place in the (7) cytoplasm. Two molecules of ATP and two molecules of (8) NADH are formed for every glucose molecule that is broken down. (9) Aerobic respiration takes place in the (10) mitochondria. It is aerobic because the process requires (11) oxygen.

Refer to the diagram of glycolysis. Label the steps in the description to match the diagram.

12. Step 4. Each three-carbon compound is converted into a three-carbon pyruvate.
13. Step 2. A six-carbon compound is broken down into two three-carbon compounds.
14. Step 1. Phosphate groups from two ATP molecules are transferred to a glucose molecule.
15. Step 3. Two NADH molecules and four ATP molecules are produced.

Respond to each question.

16. Interpret How many total ATP molecules are produced from the glycolysis of one six-carbon glucose?
2 net ATP, 4 are produced.
17. Explain Why is there a net gain of only two ATP molecules in the glycolysis of one six-carbon glucose?
4 are produced, but 2 are used to for ADP + P; so a net gain of 2 ATP



Modern Biology Cellular Respiration Test Answer Key

John Alexander Moore



Modern Biology Cellular Respiration Test Answer Key:

Modern Biology James Howard Otto, Albert Towle, 1965 *Modern Biology* V. B. Rastogi, 1997 **Handbook of Modern Experiments for High School Biology** Adelaide Hechtlinger, 1971 *Principles of Modern Biology* Douglas Marsland, 1957 **SAT Two, Biology and Biology E/M** Maurice Bleifeld, 1998 An overview of the SAT II biology exams with a review of test taking strategies is followed by a full length diagnostic test review chapters covering 11 biology topics and five complete practice tests each with an answer key a self evaluation chart and explanations of answers **Oswaal NDA-NA (NATIONAL DEFENCE ACADEMY/NAVAL ACADEMY) 11 Years' Chapter-wise & Topic-wise Solved Papers 2014-2024 (II) | General Ability Test: General Studies | For 2025 Exam** Oswaal Editorial Board, 2024-09-26 Welcome to the world of National Defence Academy NDA one of the most prestigious military academies in the world Aspiring to join the NDA and serve your country is a noble and challenging endeavour and cracking the NDA entrance examination is the first step towards achieving that dream This book NDA NA Chapter wise Topic wise Solved Papers General Ability Test General Studies is designed to help you in your preparation for the NDA entrance examination It is a Comprehensive Question Bank with Conceptual Revision Notes detailed solutions are provided in a step by step manner making it easier for you to understand the concepts and techniques required to solve the questions accurately and efficiently Some benefits of studying from Oswaal NDA NA Solved papers are 100% updated with Fully Solved Paper of September 2024 II Concept Clarity with detailed explanations of 2014 to 2024 II Papers Extensive Practice with 1200 Questions and Two Sample Question Papers Crisp Revision with Concept Based Revision Notes Mind Maps Mnemonics Expert Tips helps you get expert knowledge master crack NDA NA in first attempt Exam insights with Previous Year 2019 2024 Trend Analysis empowering students to be 100% exam ready This book has been developed with the highest editorial standards keeping in mind the rigor and meticulousness required of an exam resource catering to NDA NA The features of the book make it a must have for anyone preparing for NDA NA 2025 We hope it will help students to supplement their NDA NA preparation strategy and secure a high rank **Oswaal NDA-NA (NATIONAL DEFENCE ACADEMY/NAVAL ACADEMY) 15 Previous Solved Papers| Year-wise 2017-2024 (II) | General Ability Test: General Studies | For 2024-25 Exam** Oswaal Editorial Board, 2024-09-26 The National Defence Academy is an iconic institution and hallmark of global excellence in the sphere of military education Over the years it has emerged as a unique military academy attracting the best of youth from our nation and also from friendly foreign countries and transforming them into officers and gentlemen National Defence Academy or NDA exam is conducted twice a year by Union Public Service Commission for admission to the Army Navy and Air Force wings of NDA and Indian Naval Academy Course INAC In 2024 4 5 Lacs students applied for the NDA examination the opportunity you get from the Indian Armed Forces is just limitless which helps in enhancing your personality traits For a youngster who is aspiring to get a job full of challenges and excitement then there is no better job than the defence This book

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Kaplan GRE Subject Test: Biology Kaplan, Kaplan Publishing, 2010-06-29 This comprehensive guide features targeted review of the concepts tested on the exam from cellular structure and molecular biology to ecology and evolution **Human Physiology: Circulation and respiration** Luigi Luciani, 1911 *Plant Biology* Francis Cavers, 1907 **Fundamentals of Microbiology** Jeffrey C. Pommerville, 2014 Every new copy of the print book includes access code to Student Companion Website The Tenth Edition of Jeffrey Pommerville s best selling award winning classic text *Fundamentals of Microbiology* provides nursing and allied health students with a firm foundation in microbiology Updated to reflect the Curriculum Guidelines for Undergraduate Microbiology as recommended by the American Society of Microbiology the fully revised tenth edition includes all new pedagogical features and the most current research data This edition incorporates updates on infectious disease and the human microbiome a revised discussion of the immune system and an expanded Learning Design Concept feature that challenges students to develop critical thinking skills Accesible enough for introductory students and comprehensive enough for more advanced learners *Fundamentals of Microbiology* encourages students to synthesize information think deeply and develop a broad toolset for analysis and research Real life examples actual published experiments and engaging figures and tables ensure student success The texts s design allows students to self evaluate and build a solid platform of investigative skills Enjoyable lively and challenging *Fundamentals of Microbiology* is an essential text for students in the health sciences New to the fully revised and updated Tenth Edition New Investigating the Microbial World feature in each chapter encourages students to participate in the scientific investigation process and challenges them to apply the process of science and quantitative reasoning through related actual experiments All new or updated discussions

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