

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



Cellular Respiration Guide Answer Key

Collins



Cellular Respiration Guide Answer Key:

Cells, Teacher's Guide , AP Biology Study Guide Sundar Nathan, 2009-11 Sundar Nathan received a Bachelor's degree in Electrical Engineering from Anna University Chennai India and a Masters degree in Biomedical Engineering from the University of Texas at Austin Working for over a year with a team of talented Phds MPhils and MScs from all over the world Sundar compiled this comprehensive study guide to help students prepare diligently understand the concepts and Crush the AP Bio Test **GO TO Objective NEET 2021 Biology Guide 8th Edition** Disha Experts, [Cell Biology MCQ \(Multiple Choice Questions\)](#) Arshad Iqbal, The Cell Biology Multiple Choice Questions MCQ Quiz with Answers PDF Cell Biology MCQ PDF Download Quiz Questions Chapter 1 4 Practice Tests with Answer Key Biology Questions Bank MCQs Notes includes revision guide for problem solving with hundreds of solved MCQs Cell Biology MCQ with Answers PDF book covers basic concepts analytical and practical assessment tests Cell Biology MCQ PDF book helps to practice test questions from exam prep notes The Cell Biology MCQs with Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved MCQs Cell Biology Multiple Choice Questions and Answers MCQs PDF Free download chapter 1 a book covers solved quiz questions and answers on chapters Cell evolutionary history of biological diversity genetics mechanism of evolution tests for college and university revision guide Cell Biology Quiz Questions and Answers PDF free download eBook's sample covers beginner's solved questions textbook's study notes to practice online tests The book Cell Biology MCQs Chapter 1 4 PDF includes medical school question papers to review practice tests for exams Cell Biology Multiple Choice Questions MCQ with Answers PDF digital edition eBook a study guide with textbook chapters tests for NEET MCAT MDCAT SAT ACT competitive exam Cell Biology Mock Tests Chapter 1 4 eBook covers problem solving exam tests from biology textbook and practical eBook chapter wise as Chapter 1 Cell MCQ Chapter 2 Evolutionary History of Biological Diversity MCQ Chapter 3 Genetics MCQ Chapter 4 Mechanisms of Evolution MCQ The Cell MCQ PDF eBook Chapter 1 practice test to solve MCQ questions on Cell communication cell cycle cellular respiration and fermentation and introduction to metabolism The Evolutionary History of Biological Diversity MCQ PDF eBook Chapter 2 practice test to solve MCQ questions on Bacteria and archaea plant diversity I plant diversity II and protists The Genetics MCQ PDF eBook Chapter 3 practice test to solve MCQ questions on Chromosomal basis of inheritance DNA tools and biotechnology gene expression from gene to protein genomes and their evolution meiosis Mendel and gene idea molecular basis of inheritance regulation of gene expression and viruses The Mechanisms of Evolution MCQ PDF eBook Chapter 4 practice test to solve MCQ questions on Evolution of populations evolution themes of biology and scientific enquiry and history of life on earth **All in 1 Guide Book: CBSE Class 10 for 2022 Examination** Gurukul, 2021-06-21 Benefit from Effective Practice Easy Revision for Class 10 CBSE Board Examinations 2022 with our All in 1 Guide Book Consisting of 6 subjects including English Language Literature Hindi A Hindi B Mathematics Science and Social Science Our handbook will help you study well and prepare at

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