

## 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.

# 44 Overview Of Cellular Respiration Study Guide Answer Key

**JL Elias**



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**Study Guide to Accompany Structure and Function of the Body** Linda Swisher, Gary A. Thibodeau, 2003-11 This comprehensive resource provides a variety of exercises for readers to apply and test their knowledge It contains matching fill in the blanks crossword puzzles word find unscramble the word application questions diagrams and page number references in the answer key December 2003

**Life Science Junior High School Science Series 1986** Jantzen, 1986-06 Human Biology Sylvia S. Mader, 2008 The relationship between humans and other living things is emphasised in this text Students are provided with a firm grasp of how their bodies function and how the human population can become more fully integrated into the biosphere

*SRDS International Media Guide*, 2002 **Medical and Health Care Books and Serials in Print**, 1986 **Biology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2000-03 *Battelle Technical Review*, 1956 **Films and Other Materials for Projection** Library of Congress, 1973 Medical Books and Serials in Print, 1984 *Subject Guide to Books in Print*, 1983 Multimedia and Videodisc Compendium, 1995 Scientific and Technical Books and Serials in Print, 1989 Whitaker's Books in Print, 1998

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