

## 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 CO<sub>2</sub>. In the process, ATP and the electron carriers NADH and FADH<sub>2</sub> 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.

# 4 5 Cellular Respiration In Detail Study Answer Key

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#### 4 5 Cellular Respiration In Detail Study Answer Key:

Life Under Pressure: Microbial Adaptation and Survival in High Pressure Environments Xue-Gong Li ,Mohamed Jebbar,2026-03-17 High pressure environments such as deep sea hydrothermal vents subglacial lakes and oil reservoirs are characterized by extreme conditions such as high pressure low temperature and limited nutrient availability Despite these challenges microbial life can thrive in these environments and understanding how microorganisms adapt and survive in high pressure conditions is crucial for our understanding of the limits of life on Earth and beyond The ability of microorganisms to adapt and survive in such high pressure conditions also has important implications for astrobiology biotechnology and environmental microbiology This Research Topic aims to explore the diverse strategies that allow barophilic microorganisms to adapt and survive in high pressure environments We welcome submissions of Original Research Review Mini Review Perspective and Opinion articles on the following topics Mechanisms of high pressure adaptation in microorganisms including changes in membrane structure and stress response pathways Genomic and transcriptomic analysis of high pressure adapted microorganisms including the identification of key genes and pathways involved in high pressure adaptation Diversity and distribution of high pressure adapted microorganisms in different environments including deep sea hydrothermal vents subglacial lakes and oil reservoirs Application of barophilic or piezophilic microorganisms and their mechanisms in astrobiology or biotechnology

**Radio News** ,1923 Some issues 1943 July 1948 include separately paged and numbered section called Radio electronic engineering edition called Radionics edition in 1943 *Biological Abstracts* Jacob Richard Schramm,1929 **Technical Note** ,1927 **Prentice Hall Exploring Life Science** Anthea Maton,1997 *Radio & TV News* ,1923 Some issues Aug 1943 Apr 1954 are called Radio electronic engineering ed called in 1943 Radionics ed which include a separately paged section Radio electronic engineering varies v 1 no 2 v 22 no 7 issued separately Aug 1954 May 1955 *A Laboratory Manual for the Solution of Problems in Biology* Richard Worthy Sharpe,1911 *Chemical News and Journal of Physical Science* ,1921 *The Chemical News and Journal of Physical Science* ,1920 **The Journal of Cell Biology** ,1998 No 2 pt 2 of November issue each year from v 19 47 1963 70 and v 55 1972 contain the Abstracts of papers presented at the annual meeting of the American Society for Cell Biology 3d 10th 1963 70 and 12th 1972 *The Collecting Net* ,1930 *Journal of Nervous and Mental Disease* ,1910 July 1918 1943 include reports of various neurological and psychiatric societies **Chemical News and Journal of Industrial Science** ,1920 **Chemical News and Journal of Physical Science** William Crookes,James H. Gardiner,Gerald Druce,H. W. Blood-Ryan,1920 *The Chemical News* ,1920 **Investigating Biology** Judith G. Morgan,1999 With its distinctive investigative approach to learning this effective laboratory manual encourages readers to become detectives of science While teaching the basic materials and procedures important for all biology majors to learn the authors also invite readers to pose hypotheses make predictions conduct open ended experiments collect data and then apply the results to new problems The result of this

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**Journal of the American Medical Association** ,1916 Includes proceedings of the association papers read at the annual sessions and lists of current medical literature

Investing Biology Pearson Education,2002-11

*Cancer Review* ,1927

**The Japan Medical World** Mikinosuke Miyajima,1929

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