

## CELLULAR RESPIRATION QUESTIONS

1. Write the balanced word and chemical equation for aerobic respiration.  
→ Glucose + oxygen → carbon dioxide + water + energy  
$$C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O + \text{36-38 ATP}$$
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.

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**PT Brinkman**

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