

1. What is the term for metabolic pathways that release stored energy by breaking down complex molecules?
 A. Anabolic pathways
 B. Catabolic pathways
 C. Fermentation process
 D. Thermodynamic pathways
 E. Bio energetic pathways
2. The molecule that functions as the reducing agent (electron donor) in a redox or oxidation-reduction reaction
 A. Gains electron and gains energy
 B. Loses electrons and loses energy
 C. Gains electrons and loses energy
 D. Loses electrons and gains energy
 E. Neither gain nor loses electrons, but gains or loses energy
3. When electrons move closer to a more electronegative atom, what happens?
 A. Energy is released
 B. Energy is consumed
 C. The more electronegative atom is reduced
 D. The more electronegative atom is oxidized
 E. A and C are correct
4. Why does the oxidation of organic compounds by molecular oxygen to produce CO₂ and water release free energy?
 A. The covalent bond in organic molecules are higher energy bonds than those in water and carbon dioxide
 B. Electrons are being moved from atoms that have a lower affinity for electrons (such as C) to atoms with a higher affinity for electrons (such as O)
 C. The oxidation of organic compounds can be used to make ATP
 D. the electrons have a higher potential energy when associated with water and CO₂ than they do in organic compounds
 E. The covalent bonds in O₂ is unstable and easily broken by electron from organic molecules
5. Which of the following statements describes the results of this reaction?
 $C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O + \text{energy}$
 A. C₆H₁₂O₆ is oxidized and O₂ is reduced
 B. O₂ is oxidized and H₂O is reduced
 C. CO₂ is reduced and O₂ is oxidized
 D. C₆H₁₂O₆ is reduced and CO₂ is oxidized
 E. O₂ is reduced and CO₂ is oxidized
6. When a glucose molecule loses a hydrogen atom as a result of oxidation-reduction reaction, the molecule becomes
 A. Dehydrogenated
 B. Hydrogenated
 C. Oxidized
 D. Reduced
 E. An oxidizing agent
7. When a molecule of NAD⁺ (nicotinamide adenine dinucleotide) gains a hydrogen atom (not a hydrogen ion) the molecule becomes
 A. Hydrogenated
 B. Oxidized
 C. Reduced
 D. Redoxed
 E. A reducing agent
8. Which of the following statements describes NAD⁺?
 A. NAD⁺ is reduced to NADH during both glycolysis and the citric acid cycle
 B. NAD⁺ has more chemical energy than NADH
 C. NAD⁺ is reduced by the action of hydrogenases
 D. NAD⁺ can donate electrons for use in oxidative phosphorylation
 E. In the absence of NAD⁺, glycolysis can still function
9. Where does glycolysis take place?
 A. Mitochondrial matrix
 B. Mitochondrial outer membrane
 C. Mitochondrial inner membrane
 D. Mitochondrial intermembrane space
 E. Cytosol
10. The ATP made during glycolysis is generated by
 A. Substrate-level phosphorylation
 B. Electron transport
 C. Photo phosphorylation
 D. Chemiosmosis
 E. Oxidation of NAD⁺ and NADH
11. The oxygen consumed during cellular respiration is involved directly in which process or event?
 A. Glycolysis
 B. Accepting electrons at the end of the electron transport chain
 C. The citric acid cycle
 D. The oxidation of pyruvate at acetyl CoA
 E. The phosphorylation of ADP to form ATP
12. Which process in eukaryote cells will proceed normally whether oxygen (O₂) is present or absent?
 A. Electron transport
 B. Glycolysis
 C. The citric acid cycle
 D. Oxidation phosphorylation
 E. Chemiosmosis

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Albert A Gayle



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