

RESPIRATION

Previous question from Respiration

1. Correct sequence of electron transport in ATP synthesis is 1997
1. Cyt a₁, a, b, c **2. Cyt b, c, a, a₃** 3. Cyt b, c, a₃, a 4. Cyt c, b, a, a₃
2. The product of fermentation is 1997
1. Ethanol and lactic acid 2. Acetic acid and lactic acid
3. Ethanol and lactic acid **4. All of these**
3. What is the total production of ATP by breakdown of one glucose molecule during aerobic respiration 2002
1) 34 **2) 38** 3) 14 4) 4
4. In which one of the following do the two names refer to one and the same thing 2003
1. Keb's cycle and Calvin's cycle **2. Tricarboxylic acid cycle and Citric acid cycle**
3. Citric acid cycle and Calvin's cycle 4. Tricarboxylic acid cycle and urea cycle
5. In , Glycolysis during oxidation electrons are removed by 2004
1. ATP 2. Glyceraldehydes-3-phosphate
3. NAD⁺ 4. Molecular oxygen
6. Dough kept overnight in warm weather becomes soft and spongy because of 2004
1. Absorption of carbon dioxide from atmosphere **2. Fermentation**
3. Cohesion 4. Osmosis
7. Chemiosmotic theory of ATP synthesis in chloroplasts and mitochondria is based on 2005
1. Proton gradient 2. Accumulation K ions
3. Accumulation of Na ions 4. Membrane potential
8. During which stage in the complete oxidation of glucose are the greatest number of ATP molecules formed from ADP 2005
1. Conversion of pyruvic acid to acetyl Co A **2. Electron transport chain**
3. Glycolysis 4. Krebs's cycle

9. How many ATP molecules could maximally be generated from one molecule glucose, if the complete oxidation of one molecule glucose to CO_2 and H_2O yields 686 kcal and the useful chemical energy available in the high energy phosphate bond of one molecule of ATP is 12 kcal? 2006
1. One 2. Two **3. Thirty** 4. Fifty seven
10. All enzymes of TCA cycle are located in the mitochondrial matrix except one which is located in inner mitochondrial membrane in eukaryotes and in cytosol in prokaryotes. This enzyme is 2007
1. Isocitric dehydrogenase 2. Malate dehydrogenase
3. Succinate dehydrogenase 4. Lactate dehydrogenase
11. The overall goal of glycolysis, Krebs's cycle and the electron transport system is the formation of 2007
1. ATP in one large oxidation reaction 2. Sugars
3. Nucleic acids **4. ATP in small stepwise units**
12. The correct sequence of cell organelles during photorespiration is 2012
- (1) Chloroplast, -vacuole, -peroxisome
(2) Chloroplast, -Golgi bodies, -mitochondria
(3) Chloroplast, -Rough Endoplasmic reticulum, -Dictyosomes
(4) Chloroplast, -mitochondria, -peroxisome