

Bio I7

What percentage of ATP is generated by oxidative phosphorylation during cellular respiration?

- A. 50%
- B. 70%
- C. 90%
- D. 30%

What is the approximate efficiency of energy transfer from glucose to ATP during cellular respiration?

- A. 20%
- B. 40%
- C. 60%
- D. 80%

What is the first step in glycolysis?

- A. Conversion of glucose to pyruvate
- B. Addition of phosphate to glucose by hexokinase
- C. Formation of fructose-6-phosphate
- D. Production of ATP

What is the net ATP production from glycolysis alone?

- A. 4 ATP
- B. 2 ATP
- C. 6 ATP
- D. 8 ATP

What is the function of NAD+ in cellular respiration?

- A. It acts as an electron acceptor
- B. It produces ATP directly
- C. It breaks down glucose
- D. It forms pyruvate

What is chemiosmosis?

- A. The breakdown of glucose
- B. The production of ATP without oxygen
- C. The use of energy in a H+ gradient to drive cellular work
- D. The conversion of pyruvate to acetyl CoA

What are the three main stages of cellular respiration?

- A. Glycolysis, citric acid cycle, and oxidative phosphorylation
- B. Glycolysis, fermentation, and electron transport chain
- c. Substrate-level phosphorylation, chemiosmosis, and fermentation
- D.Redox reactions, ATP synthesis, and electron transport

Where does the citric acid cycle take place?

- A. Cytoplasm
- B. Mitochondrial matrix
- C. Cell membrane
- D. Mitochondrial intermembrane space

What is the final electron acceptor in the electron transport chain during aerobic respiration?

- A. NAD+
- B. FADH2
- C. Oxygen
- D. Pyruvate

Where does glycolysis occur in the cell?

- A. Mitochondrial matrix
- B. Cytoplasm
- C. Cell membrane
- D. Mitochondrial intermembrane space



Answers

1-с	6-с
2-b	7-a
3-b	8-b
4-b	9-с
5-a	10-b

