

## **Campbell Biology in focus, 3rd edition Final Study Guide with Guided Question & Answers 2023 APPROVED**

cell respiration equation correct answers  $C_6H_{12}O_6 + 6 O_2 \rightarrow 6 CO_2 + 6 H_2O + ATP$

NAD+ vs NADH correct answers NADH does have electrons (has electrons are with it)  
NAD+ does not have electrons (electron carrier)

Location of glycolysis, formation of acetyl CoA, citric acid cycle, and ETC correct answers Cytosol (glycolysis) and mitochondrial matrix (rest)

Substrate level phosphorylation correct answers When a phosphoryl group is transferred from a substrate to ADP or GDP to form ATP or GTP, coupled with the release of free energy.

Glycolysis end products correct answers two pyruvate (pyruvic acid) molecules, a total of four ATP molecules, and two molecules of NADH.

Formation of acetyl-CoA correct answers oxidative decarboxylation of pyruvate from glycolysis, which occurs in mitochondrial matrix, by oxidation of long-chain fatty acids, or by oxidative degradation of certain amino acids.

Glycolysis = 2 pyruvate (every stage after ward is  $\times 2$ ) correct answers Glucose + 2 NAD+ + 2 ADP + 2 Pi --> 2 Pyruvate + 2 NADH + 2 H+ + 2 ATP + 2 H2O

Citric acid cycle correct answers A series of chemical reactions to release stored energy through the oxidation of acetyl-CoA derived from carbohydrates, fats, and proteins.

Food  $\rightarrow$  NADH  $\rightarrow$  ETC  $\rightarrow$  Oxygen correct answers Aerobic respiration

Role of oxygen in cellular respiration correct answers serves as the final electron acceptor of the electron transport chain facilitating the movement of electrons down the chain hence producing the ATP or adenosine triphosphate.

Proton (H+) gradient in ETC correct answers Used to synthesize ATP

Muscle cells  $\rightarrow$  lactate without oxygen correct answers Lactic acid fermentation without oxygen present

Yeast and alcohol fermentation correct answers Yeast cells convert cereal-derived sugars into ethanol and CO<sub>2</sub>

Allows the production of ATP

Light reaction of photosynthesis (role) correct answers Capture energy from sunlight  
Take place in thylakoid membrane

Make ATP and NADPH that are used to fuel the Calvin Cycle

Green light is reflected (plants look green) correct answers The do not absorb the green light, therefore it is reflected

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