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

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

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 X 2) correct answers $Glucose + 2 NAD^+ + 2 ADP + 2 P_i \rightarrow 2 Pyruvate + 2 NADH + 2 H^+ + 2 ATP + 2 H_2O$

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 CO₂
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 They do not absorb the green light, therefore it is reflected

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web summer of the seventeenth doll was the first australian play to tour internationally and enjoyed an award winning season in england as well as a less popular one in new york despite this the film rights to the play were purchased and

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web olive herself is the seventeenth doll the one her lover will crush to pieces in the play s final scenes and though the play begins in wonderfully skittish hope and anticipation the men are in trouble too roo the champion of the cane cutting gang has had his physical dominance challenged for the first time

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web emma tells the men to leave and not come back barney turns to roo and says that they can go get jobs anywhere they should stick together and forget about johnnie and the others in a rage roo picks up the seventeenth doll and beats it against the piano when the doll is shattered and ruined he lets it drop barney encourages roo to leave

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web pearl cunningham character analysis next barney ibbot pearl is one of olive s coworkers at the pub though she s much less content with her position than olive is pearl is a widow about olive s age with an eighteen year old daughter named vera and she hopes to marry barney

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