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

cell resperation equation correct answers C 6 H 12 O 6 + 6 O 2 --> 6 CO 2 + 6 H 2 O + 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 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 → NADH → ETC → 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 → 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 2

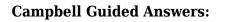
Allows the production of ATP

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

Campbell Guided Answers

AW Chickering



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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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