Biology 112, Energy Test Review

20-30 Multiple Choice from the following topics

Autotroph/Heterotroph-distinguish between them and know examples Structure of ATP, where the greatest amount of energy is stored Function of chlorophyll and its role in absorbing sunlight Products of the light dependent reaction, oxygen gas, ATP and NADPH+H Carbon dioxide as fuel for photosynthesis Stages of aerobic cellular respiration, glycolysis-Kreb's Cycle-Electron Transport Chain Glucose as fuel for glycolysis Lactic acid for glycolysis Lactic acid fermentation Aerobic respiration takes place in the presence of oxygen-Anaerobic respiration takes place in the absence of oxygen Net production of ATP during cellular respiration is 36 ATP Chloroplasts-Photosynthesis, Mitochondria-Cellular Respiration

Short Answer

Write the balanced chemical equations for photosynthesis and cellular respiration Oxidation-reduction reactions With the aid of a diagram explain the difference between exergonic and endergonic reactions Difference between aerobic and anaerobic respiration Glycolysis knowledge, know the diagram Human energy requirement and the need for aerobic respiration Two laws of thermodynamics Explain in detail the light dependent reaction and the carbon fixation phase