Cells and Energy

Study Guide B

Answer Key

SECTION 1. CHEMICAL ENERGY AND ATP

- adecensive improngresse (ACTP).
- a melecule that transfers energy from the irrestations of food melecules to cell processors.
- 3. ATP is a high-energy molecule that is conversed true lower-energy AEP when a phosphase group is hemoved and energy is referend. AEP is converted back true ATP by the addition of a phosphase group. Cycle Diagnam: High-energy administrative implements (ATP). Phosphase removed, energy refered, Lower energy administrative dynamics (AEP). Energy added from breakdown of carbon-based melassiles, phosphase added.
- melkeudes most commonly brotten down; gluome yields strout M ATP; 4 extents per mg 04-Cultures per grant.
- same most of the onergy in a person's body: mgtycerate yields about 146 ATF;
 authories per mg CF Calteries per granti.
- Items finely to be breiner down; some about the same amount of overgy an carbohydram; 4 calorus per mg (4 Culorus per g)
- a process by which some organiums use chemical energy onested of light energy to make energy scenting carbon based molecules
- ATF has shree phosphase groups; ADF has been phosphase groups.
- Together, they mean "to put together with chemicals." In chemicaphotesis, chemical energy is used to produce carbon frased methodes that some energy.

SECTION 2. OVERVIEW OF PHOTOSYNTHESIS

- they produce the vocate of chemical energy for themselves and for other organisms.
- to capture light energy to make sugars that some chemical energy.

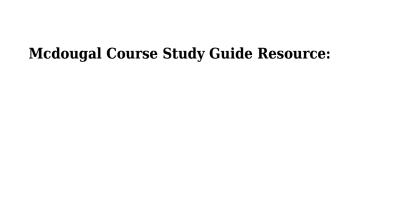
- a melicule in chlorophase that absorbs some of the energy in visible high:
- membrane dound organistics where photographesis taken place in place.
- 5. serveres and groom
- connishaped, membrane enclosed companyments inside the grans
- T. 600; + 6H₂0 ->-++ C₀H₁₂O₄ + 6O₇
 - Cartrer devote and year (the reasons) error photographesis. Through many chemical reactions, such the help of many enzymes, a six cartiers sugar and oxygen. (the products) are formed.
- The Early dependent reactions require. highs, and they already and excepter energy. The Right independent resolvers do not directly need light, and they holid suggers. Labora for Chhorophast Steps: (1) Energy From sunlight in absorbed and transferred aborigi the shydelessid membrane. Wilson resolved lies, and briefstern down and environment referend, 121 Energy carried along the the fact and imprediction to reproducted to medication that game amongs on the Righttradependent readpoint, (TO Carbon sticstude is added to a cycle of chemical resolution. so build larger molecules. (K) A six-carbon simple sugar (usually plusons) CaH (Ca): the Bermannett.
- Energy from light is used to put suppresolether.
- Chikmophy II is the Right absorbing molecule that makes lineves look green.
- The light-dependent reactions require surflight; the light-independent reactions can excur enthesis surflight.

SECTION 3. PHOTOS YNTHESIS IN

- 1. in signary and transfer everyo-
- groups of molecules that capture and transfer energy.

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Michal Rosen-Zvi



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