Cells and Energy

# Study Guide B

#### Answer Key

#### SECTION 1. CHEMICAL ENERGY AND ATP

- 1. adecession impromphase CATES
- 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 leaver-energy ADF when a phosphase group is hemoved and energy is released. ADF is converted back true ATP by the addition of a phosphase group. Cycle Diagnam: High-energy administrative implements (ATP). Phosphase removed, energy referred, Leaver-energy administrative diphosphase (ADF). Energy added from breakdown of carbon-hased melecular, 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.
- Iteau finely to be bretten down; some about the same amount of energy as carbohydrams; 4 calories per mg (4 Culories per g)
- a process by which some organiums use chemical energy onested of light energy to make energy starting carbon based molecules
- ATF has three phosphare groups; ADF has been phosphase groups.
- Together, they mean "to put together with change shi" in chanceprotects, chanced energy is used to produce carbon fiscal methodas that used energy.

#### SECTION 2. OVERVIEW OF PHOTOSYNTHESIS

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

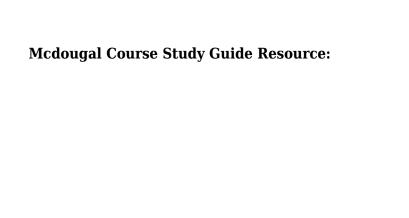
- a melicule in chlorophass that absorbs some of the energy in visible high:
- membrane dround organistics where photographesis taken place in place.
- 5. serveres and groom
- cost shaped, membrane enclosed compostrency inside the grans
- 1. 600; + 6H<sub>2</sub>0 ->-++-C<sub>0</sub>H<sub>12</sub>O<sub>0</sub> + 6O<sub>2</sub>
  - Carbon directle and years (the reasons) error photographesis. Through many chemical reactions, such the help of many enzymes, a six certion sugar and oxygen. (the products) are formed.
- The Early dependent reactions require. highs, and they already and excepter energy. The light independent resolvers do not directly need light, and they holid suggers. Labora for Chhorophast Steps: (1) Energy From sunfight 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 planess) CaH (Ca): the Bermannett.
- Energy from light is used to put sugars storoler.
- 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

- It, tensings are and transfer average
- groups of molecules that capture and transfer energy.

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**Jicheng Xie** 



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