Chlor	ophyll is the main photosynthetic pigment
	An (a) is a graph that illustrates the
	relative absorption of different wavelengths of light by a given pigment. It is obtained with an instrument called a (b)
8.	The (a) of photosynthesis is a
	measurement of the relative effectiveness of different wavelengths of light in affecting photosynthesis. It may be greater than can be accounted for by the absorption of chlorophyll alone, the difference accounted for by (b) that transfer energy absorbed from the green wavelengths to chlorophyll.
VERV	IEW OF PHOTOSYNTHESIS
	and NADPH are the products of the light-dependent reactions: an overview
	Light-dependent reactions provide useful chemical energy for of photosynthetic products.
Carbo	hydrates are produced during the carbon fixation reactions: an overview
	Light-independent reactions transfer the energy from
	(a) to the bonds in (b)
	molecules.
HE LI	GHT-DEPENDENT REACTIONS
	systems I and II each consist of a reaction center and multiple antenna comple
11.	The light-dependent reactions of photosynthesis begin whenand/or accessory pigments absorb light.
12.	Chlorophylls a and b and accessory pigment molecules are organized with pigment-binding proteins in the thylakoids membrane into units called
13.	Each antenna complex absorbs light energy and transfers it to the, which consists of chlorophyll molecules and proteins.
14.	Light energy is converted to chemical energy in the reaction centers by a series of
15.	The reaction center of photosystem II is made up of a chlorophyll <i>a</i> molecule with an absorption peak of about 680 nm and is referred to as
16. 1	When a pigment molecule absorbs light energy, that energy is passed from one bigment molecule to another until it reaches the
	clic electron transport produces ATP and NADPH
-	In noncyclic electron transport, the energized electron is passed along an electron ransport chain from one electron acceptor to another, until it is passed to, and iron-containing protein.
18.	Like photosystem I, photosystem II is activated when a pigment molecule in an absorbs a photon of light energy.
19.	is a process that not only yields electrons, but is also the ource of almost all the oxygen in the Earth's atmosphere.