Chapter 8: Cellular Energy Outline Quiz #2

Section 2: Photosynthesis

1. \_\_\_\_\_\_ converts light energy to chemical energy during photosynthesis.
2. The two phases of photosynthesis are the \_\_\_\_\_\_\_ reactions and the \_\_\_\_\_\_\_\_ reactions.
3. \_\_\_\_\_\_\_ and \_\_\_\_\_\_\_ store energy converted from light energy at the end of the light \_\_\_\_\_\_ reactions.
4. Glucose is made during the light \_\_\_\_\_\_\_ reactions.
5. The first step of photosynthesis is \_\_\_\_\_\_.
6. \_\_\_\_\_\_ are the organelles responsible for capturing light energy.
7. Flattened, saclike membranes where the light dependent reactions occur are called \_\_\_\_\_\_\_. They are arranged into stacks called \_\_\_\_\_\_\_\_.
8. The Stroma is fluid filled space outside of the \_\_\_\_\_ and is the location for the light \_\_\_\_\_\_ reactions.
9. Light absorbing molecules that are found in the thylakoid membranes are referred to as \_\_\_\_\_.
10. The main pigment that reflects green light is called \_\_\_\_\_ which absorbs \_\_\_\_\_\_ light.
11. \_\_\_\_\_ allow plants to trap additional light energy from other parts of the spectrum.
12. During electron transport light energy causes a \_\_\_\_\_ molecule to split, releasing a(n) \_\_\_\_\_ into photosystem \_\_\_\_\_, a proton into the \_\_\_\_\_, and releases \_\_\_\_\_ as waste.
13. \_\_\_\_ excites the electrons in photosystem II and they are transferred along a series of electron carriers to \_\_\_\_\_.
14. After photosystem I, electrons move to the electron carrier \_\_\_\_\_ forming \_\_\_\_\_.
15. ATP is formed from a mechanism known as \_\_\_\_\_
16. The high concentration of \_\_\_\_\_ from the splitting of water in the \_\_\_\_\_, causes them to diffuse into the stroma through ATP \_\_\_\_\_. Thus converting \_\_\_\_\_ to ATP.