

SECTION 6-1 REVIEW

THE LIGHT REACTIONS

VOCABULARY REVIEW Explain the relationship between the terms in each of the following pairs of terms.

1. granum, stroma _____
2. chlorophyll α , carotenoids _____
3. chemiosmosis, ATP synthase _____

MULTIPLE CHOICE Write the correct letter in the blank.

1. Chlorophyll α
 - a. absorbs mostly orange-red and blue-violet light.
 - b. absorbs mostly green light.
 - c. is an accessory pigment.
 - d. is responsible for the red color of many autumn leaves.
2. The photosystems and electron transport chains are located in the
 - a. outer chloroplast membrane.
 - b. inner chloroplast membrane.
 - c. thylakoid membrane.
 - d. stroma.
3. Both photosystem I and photosystem II
 - a. receive electrons from other photosystems.
 - b. donate electrons to a transport chain that generates NADPH.
 - c. donate protons to each other.
 - d. contain chlorophyll α molecules.
4. Water participates directly in the light reactions of photosynthesis by
 - a. donating electrons to NADPH.
 - b. donating electrons to photosystem II.
 - c. accepting electrons from the electron transport chains.
 - d. accepting electrons from ADP.
5. The energy that is used to establish the proton gradient across the thylakoid membrane comes from the
 - a. synthesis of ATP.
 - b. synthesis of NADPH.
 - c. passage of electrons along the electron transport chain of photosystem II.
 - d. splitting of water.

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Sir Norman Lockyer

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