

BIOSCI 1820

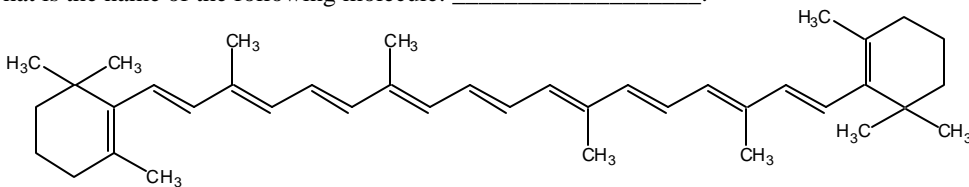
Quiz #4

MAR 2001

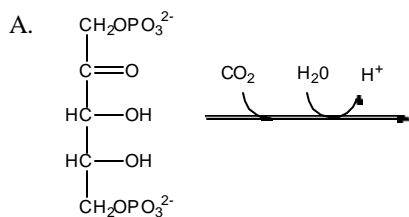
I. Definitions:

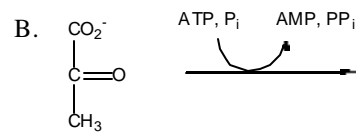
- A. During photosynthesis, protons are pumped into the _____.
- B. The CF_0/CF_1 ATP synthase is located in the _____ lamellae.
- C. Photosystem II is located in the _____ lamellae.
- D. _____ is the organelle in which photosynthesis occurs in plants.
- E. Ribulose-1,5-bisphosphate carboxylase is located in the _____.
- F. Give two examples of C-4 plants:
- G. The pair of chlorophylls into which the harvested photons are funneled in Photosystem I and II is known as the _____.
- H. _____ resembles chlorophyll except that instead of a Mg^{2+} ion there are two H^+ s bound in the porphyrin ring.

II. What is the name of the following molecule: _____.



III. Draw the structures of the products of the following reactions:





IV. Name two ways that Rubisco is activated:

V. The herbicide atrazine binds to the plastoquinones (Q_A and Q_B) in Photosystem II. What component would be the most reduced via the photosynthetic electron transport chain in plants treated with atrazine?

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