

## AP BIOLOGY ESSAY QUESTIONS

1. Discuss the lock-and-key theory of enzyme-substrate interaction giving a specific example to illustrate the theory. Include in your discussion the effects of each of the following:
  - a. Substrate concentration
  - b. pH shifts
  - c. Temperature shifts
  - d. Competitive inhibition
2. Describe in detail the process of meiosis as it occurs in an organism with a diploid chromosome number of 4 ( $2n = 4$ ). Include labeled diagrams in your discussion. Indicate when and how each of the following occurs in meiosis.
  - a. Crossing over
  - b. Nondisjunction
3. In humans, discuss the transport of gases (oxygen and carbon dioxide) by the blood and the exchange of these gases between the blood and cells of the body. Include in your discussion the cellular and fluid composition of the blood.
4. In flowering plants, describe in detail the transport of water, carbohydrates, and inorganic solutes (nitrates, for example). Discuss the theories that have been proposed to explain how these substances are transported.
5. Discuss the significance of each of the events listed below in the evolution of living organisms.
  - a. Primordial reducing atmosphere
  - b. Origin of photosynthesis
  - c. Increase in atmospheric oxygen and the development of the ozone layer.
  - d. Origin of eukaryotes
6. Many areas of North America that were once covered with many small lakes and ponds have undergone succession and are now continuously covered with forests. Give a detailed description of the events (biotic and abiotic factors) that lead to the establishment of a climax forest.

# Ap Bio Essay Questions

**Marcel A. Müller**



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