

# AP Bio Chapter 8 Exam Questions and Answers

Enzyme - Correct Answers -catalysts that speed up chemical reactions

Substrate - Correct Answers -the reactant that an enzyme acts on

Reactant - Correct Answers -a substance that takes part in and undergoes change during a reaction

Catalyst - Correct Answers -a chemical agent that speeds up a reaction without being consumed by the reaction

Energy of Activation - Correct Answers -the initial energy needed to start a chemical reaction

Allosteric Regulation - Correct Answers -it may either inhibit or stimulate an enzyme's activity; a molecule binds to a protein at one site and affects the protein's function at another site

If an enzyme in solution is saturated with substrate, the most effective way to obtain a faster yield of products is to - Correct Answers -add more of the enzyme

Some bacteria are metabolically active in hot springs because - Correct Answers -their enzymes have high optimal temperatures

If an enzyme is added to a solution where its substrate and product are in equilibrium, what will occur? - Correct Answers -Nothing; the reaction will stay at equilibrium.

Gibbs free energy - Correct Answers -the portion of the system's energy that can perform work when temperature and pressure are uniform in a system

The value of  $\Delta G$  can be used to determine - Correct Answers -if a reaction will be spontaneous or will require additional energy to take place

How do enzymes catalyze reactions? - Correct Answers -By lowering  $E_a$  level. Enzymes don't affect  $\Delta G$  but they speed up reactions that would occur eventually

List four ways in which the energy of activation can be lowered due to the substrate binding to the active site of an enzyme. - Correct Answers --orienting substrates correctly so a reaction can take place

# Ap Bio Chapter 8 1

**M Tight**



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