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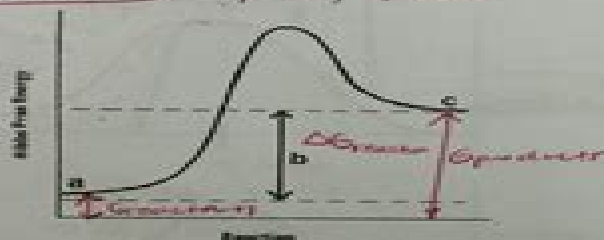
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REVIEW
Chapter 8 Metabolism/Enzymes

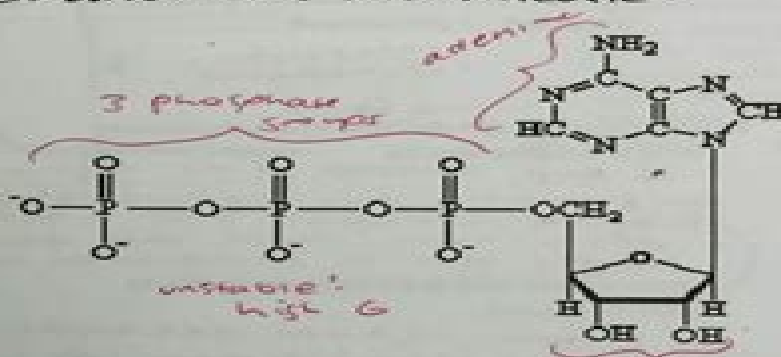
Activity 1: Thermodynamics

1. For each of the following pairs choose the scenario with lower entropy = lower S, more organized, less random
- Hydrolysis / Dehydration Synthesis
 - 3 molecules of H_2O / 6 hydrogen and 3 oxygen atoms
 - Potential energy / Heat

- (2.1) Label a-c on the graph of the reaction below.
(2.2) Is this reaction exergonic or endergonic?
(2.3) Is the reaction spontaneous or nonspontaneous? uphill, $+\Delta G$



3. Label this ATP molecule.



Activity 2: Enzymes

1. Describe the induced fit model of enzyme substrate interaction. - called by entry of the substrate the change of shape of the active site of the enzyme so that it binds most closely to the substrate
2. How do enzymes speed up the rate of a chemical reaction? lower E_a so that reaction that would have occurred anyway happens faster
3. Aspirin permanently binds to the active site of the enzyme that makes the chemical responsible for inflammation and stops it from doing its job.
- What type of inhibitor is aspirin? irreversible, competitive inhibitor
 - What type of bonds exist between aspirin and the enzyme? covalent (strong)
4. Strychnine is a poison that leads to convulsions by binding to the allosteric site of a nerve receptor protein.
- What type of inhibitor is strychnine? noncompetitive, allosteric inhibitor
 - How does it prevent the enzyme-substrate complex from forming?
binding it indirectly alters the active site conformation, preventing substrate attachment.

Answer Key To Enzyme Activity

Mr. Rohit Manglik



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