

Chapter 8: Energy and Metabolism

1. Discuss energy conversions and the 1st and 2nd law of thermodynamics. Be sure to use the terms work, potential energy, kinetic energy, and entropy.
2. What are Joules (J) and calories (cal)?
3. The laws of thermodynamics are sometimes stated as: In energy conversions, "You can't win, and you can't break even." Explain.
4. Differentiate between:
 anabolism and catabolism
 exergonic and endergonic reactions
5. Why is ATP so darned important?
 What is a phosphorylated intermediate?
 How much ATP is in a cell at any given time?
 Why must cells keep a high ATP/ADP ratio?
6. What are redox reactions used for in cells? How (generally) can you tell which of two similar compounds is reduced and which is oxidized? Give some examples of compounds commonly used in redox reactions in cells.
7. What do enzymes do for cells, and how do they do it? Be sure to use the following terms: catalyst (or catalyze); activation energy, enzyme-substrate complex, active site, induced fit.
8. What are the four main things that enzymes do to lower activation energy?
9. How are enzymes named (what suffixes indicate an enzyme)?
10. Explain the terms cofactor, apoenzyme, and coenzyme.
11. Discuss the effects of temperature and pH on enzyme activity.
12. What is a metabolic pathway?
13. How do cells regulate enzyme activity? Include the terms inhibitors, activators, allosteric site, and feedback inhibition; also, differentiate between irreversible and reversible inhibition and between competitive and noncompetitive inhibition.

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Arshad Iqbal



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