

Name _____

Date _____

Score _____

ENERGY, ENZYMES AND METABOLISM

CHAPTER 6

1. **Metabolism** What term is used to identify the sum of all chemical activity in the body (cell)?
2. **Catabolism** What general term is used to identify the breaking down large molecules?
3. **1st Law** Energy cannot be created or destroyed ... but can be changed?
4. **Enthalpy** The total energy in a system (H)
5. **Heat** The most random form of energy in a system
6. **Gibbs Free** What is the energy available to do work in a biological system
7. **Kelvin** Temperature, in the Gibbs Free Energy equation, is measured on what scale?
8. **Endergonic** A biological chemical reaction that “Requires” the input of energy is said to be ___?___.
9. **Equilibrium** When an Energy system reaches “0”. It is said to be ___?___.
10. **Dead** When a biological system’s $G=0$, then the system is considered to be ___?___.

Bonus:

Competitive Inhibitor When an enzyme has a substrate (B) occupying the same active site as the intended substrate (A) ... Then substrate (B) is referred to as ___?___

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10. _____ When a biological system's $G=0$, then the system is considered to be ___?___.

Bonus:

_____ When an enzyme has a substrate (B) occupying the same active site as the intended substrate (A) Then substrate (B) is referred to as ___?___