

# Biochemistry Study Guide



**Directions:** Answer the following questions in order to help you prepare for your test. The notes you will need are:

- 1) Carbon Compounds**
- 2) Chemical Reaction and Enzymes.**
- 3) Water and pH**

1. List all 5 functions of proteins.
2. What are nucleic acids?
3. List three examples of nucleic acids.
4. What are the three parts of a nucleotide?
5. Define chemical reaction.
6. In the following equation:  $C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O$  identify the products and the reactants.
  - a. Products=
  - b. Reactants=
  - c. In a chemical reaction, the atoms are \_\_\_\_\_, not created or destroyed.
  - d. In a chemical reaction, energy can be released as what three things?
7. What is activation energy?
8. What two functions (jobs) do catalysts and enzymes serve?
9. What is an active site?
10. What 3 conditions can affect the rate at which enzymes work?
11. What suffix do all enzymes end in (which three letters)? \_\_\_\_\_
12. Describe how an enzyme works like a lock and key.
13. How is the induced fit theory different than the lock and key theory?

# Biochemistry Study Guide

**Hussin A.Rothana**



## **Biochemistry Study Guide:**

## Reviewing **Biochemistry Study Guide**: Unlocking the Spellbinding Force of Linguistics

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