

Name: _____ Date: _____

Chemistry Exam 3- Enzymes

1. Proteins that SPEED UP CHEMICAL REACTIONS by acting as catalysts
 2. the COMPOUND on which the enzyme works (the molecule UNDERGOING REACTION)
 3. the PORTION OF THE ENZYME at which the SUBSTRATE IS TEMPORARILY BOUND while the enzyme is acting on it
 4. COMBINATION OF ENZYME and SUBSTRATE during the CATALYSIS process
 5. INACTIVE form of an enzyme; ACTIVATED in the body when needed through REMOVAL OF A SMALL PART OF THE POLYPEPTIDE CHAIN
 6. enzyme that is ACTIVE as a polypeptide and DOES NOT REQUIRE A COFACTOR
 7. NONPROTEIN part of an enzyme may be either INORGANIC IONS (Zn²⁺ OR Mn²⁺) or ORGANIC MOLECULES
 8. name given to a COFACTOR when the cofactor is an ORGANIC COMPOUND; many are water-soluble vitamins
 9. Assumes the active site is RIGID, and only a PARTICULAR substrate will fit into it
 10. Assumes the active site is FLEXIBLE and the binding of the substrate induces the proper fit; more realistic; only a specific substrate can properly align so as to bind at the active site
- A. Cofactor
 - B. Active site
 - C. Substrate
 - D. Lock and Key Model
 - E. Induced Fit Model
 - F. proenzyme (zymogen)
 - G. Enzymes
 - H. Coenzyme
 - I. Enzyme-Substrate (ES) complex
 - J. Simple enzyme