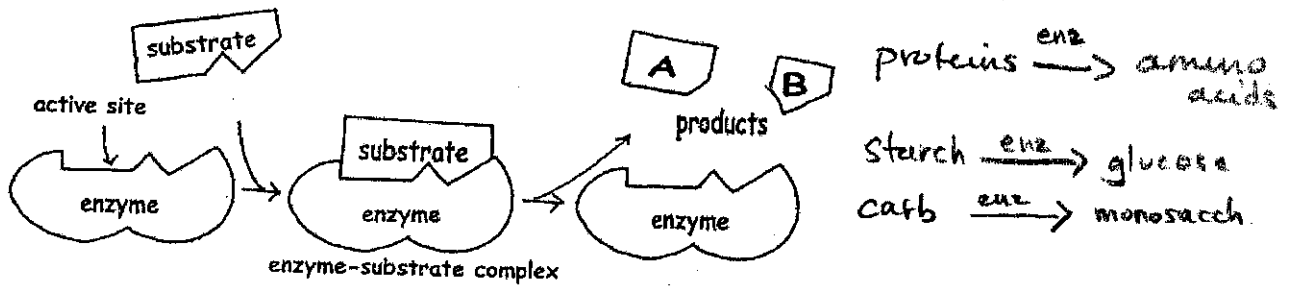


ENZYMES SUMMARY SHEET

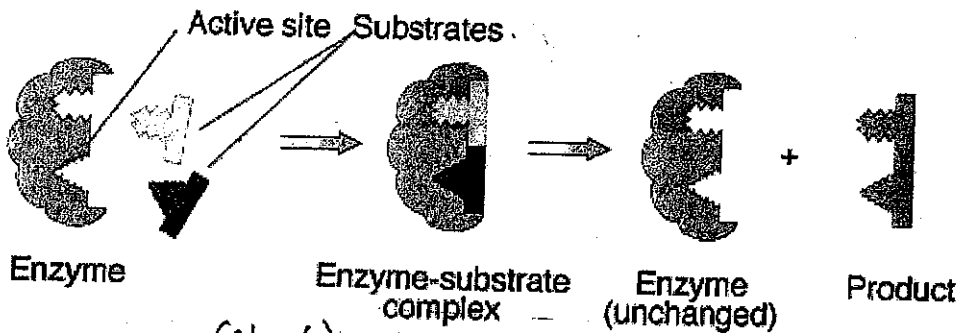
1. Are **Proteins** – (polypeptides) long chains of amino acids held together by peptide bonds *proteins Peptides*
2. Organic Catalyst
3. **Speed Up Chemical Reactions** - job or function
4. **SHAPE** determines **FUNCTION**
5. Act on a **substrate** (**Lock and Key model**)
6. Work only with **SPECIFIC SUBSTRATES** (complementary shape)
7. Can be reused
8. Are **not changed** in the chemical reaction
9. Are used on **BOTH hydrolysis (digestion) and dehydration synthesis** reactions.

2.) Digestion (hydrolysis) reaction – how enzymes break down food into nutrients



- amino acids are the digestion products of protein
- glucose is digestion product of starch

3.) Synthesis Reaction – how enzymes help to build larger molecules



- To build a polysacch. combine monosacch like glucose. *(starch)*
- To synthesize a protein (enz, hormones) combine amino acids