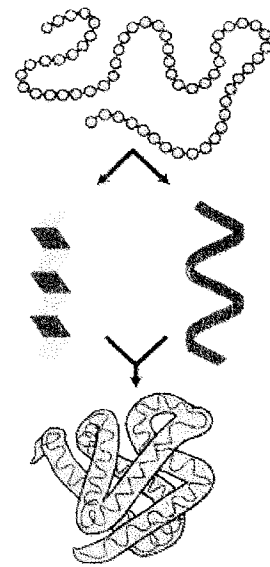


Protein Function and Gene Expression

I. Shape and Function of Completed Proteins



- A. When proteins exit the ribosome they are _____.
- B. A protein's _____ on its specific _____.
- C. To function properly, proteins must _____ to a unique, _____.
- D. To function, proteins must _____ to other molecules. Examples:
 - a. _____ proteins must fit on bacteria and viruses to destroy them.
 - b. _____ recognize and bind to specific substrates to speed up chemical reactions.
 - c. _____ move from one cell to another and bind to membrane of the receiving cell
- E. _____ is the process of unfolding a protein.
- F. Proteins have many functions that require a _____ : Examples

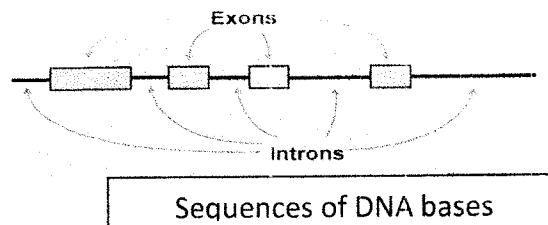
| | | | |
|----------------|------------------------|------------------|-------------------|
| Enzymes | Storage | Transport | Receptors |
| Motor | Gene Regulation | Signaling | Structural |

II. Proteins and Gene Expression

- A. What is gene expression?
 - a. = the _____ (turning on) that results in a _____.
 - b. Genes expressed in a particular cell determine what that _____.
- B. Cells must regulate the expression of genes by _____ the production of _____ (termed _____.)

III. DNA and Gene Expression

- A. Eukaryotic cells (DNA in a nucleus) have regions of DNA that code for _____.



- B. Regions of DNA that code for proteins or traits are called _____.
- C. Regions that _____ for proteins are called _____.