SELF-TEST

Do You Know the Terms?

ACROSS

1.	The zinc ion in a zinc finger protein is an example of a group.				1		2						
4.	A covalent bond between two nonadjacent					nen:					a rate		
	cysteines in a polypeptide chain is a	3	1			4				T			
	bond.												
6.	An example of a(n) amino acid is			5	7		17		1 10			-	
	histidine, which can either accept protons or			3		6	1		8				
	donate them at a pH that is close to	9	10										
	physiological pH values.	1000											
9.	All stereoisomers must have at least one								11				
	center.								111				
11.	out is a technique that selectively									122	· 6	3.17	
	precipitates some proteins, while others			-									
	remain in solution. Ammonium sulfate						12						
10	$((NH_4)_2SO_4)$ is often used for this purpose.						12						
12.	The bond type that forms the primary												
19	structure.			1	_		13	14		TI			
10.	The pH at which the numbers of positive and												
	negative charges on an amino acid are equal is												
15	referred to as the point or pI. A single unit within a polymer: for example,					1	.5						
10.	lysine in a protein molecule.					L							
16	At pH 7, any amino acid with an uncharged R		16		T	П							
10.	group is a												
17.	Proteins from different species that have simi-												
	lar amino acid sequences and functions are re-												

DOWN

ferred to as

- 2. A reagent used in electrophoresis to separate polypeptides on the basis of mass. (abbr.)
- 3. Many types of separation can be done using this chromatographic technique; its advantage lies in the reduction of transit time on the column, limiting diffusional spreading of protein bands and improving resolution. (abbr.)
- **4.** After "salting out" proteins, removal of excess ammonium sulfate can be accomplished by _____ of the protein-salt solution overnight against large volumes of buffer.
- **5.** The whole assortment of proteins in an organism; analogous to the genome.

- 7. A linear chain of amino acid residues that usually has a molecular weight less than 10,000 daltons.
- The ______ degradation procedure provides information about a protein's primary structure.
- 10. Insulin obtained from sheep can be used to treat human diabetics because sheep and human insulin are _____ proteins.
- **14.** Hemoglobin, which contains two sets of identical subunits, is often referred to as a(n) _____.