Biology 12
Ms. Kuiper

Biology 12 - Biological Molecules - Review Worksheet

Part A: Mix and Match: Match the term on the right with the definition on the left. Each term can be used only once. Write the letter of the best answer in the box to the left of the definition.

1)	water-"loving"	A)	adenosine
			triphosphate
2)	water-"fearing"	B)	amino acid
3)	two or more polypeptide chains coming together and bonding with each other	C)	atom
4)	to permanently change the 3 dimensional structure of a protein	D)	buffer
5)	the subunit that makes up nucleic acids - 4 types in DNA are A C G T	E)	carbohydrate
6)	the smallest unit of matter that cannot normally be broken into smaller particles	F)	cellulose
7)	the process of breaking down large fat droplets into smaller fat droplets	G)	cholesterol
8)	the loose association of amino acids in a polypeptide chain with each other, usually through H-bonds. e.g. alpha helix, beta pleated sheet	H)	dehydration synthesis
9)	the linear sequence of amino acids in a protein, which ultimately determines its shape	I)	denature
10)	the building block of protein there are 20 different kinds normally found in nature	J)	emulsification
11)	the bond that forms between two amino acids joined by dehydration synthesis	K)	enzymes
12)	the 3-D shape of a polypeptide chain due to it folding back on itself and forming bonds.	L)	glucose
13)	creating a bond between two atoms by taking OH from one atom and H from the other	M)	glycogen
14)	breaking a bond between two atoms by adding OH to one atom and H to the other	N)	hydrogen bond
15)	biological catalysts, composed of protein, that speed up chemical reactions	O)	hydrolysis
16)	ATP - the molecule that carries energy in the cell	P)	hydrophobic
17)	any molecule with the molecular formula $C_n(H_2O)_n$	Q)	hydrophilic
18)	an important component of cell membranes, has a hydrophilic head, hydrophobic tail	R)	ion
19)	an enzyme that breaks down maltose to two glucose molecules	S)	lipid
20)	an atom or molecule that has either lost or gained electrons	T)	maltose
21)	a weak bond due to the attraction between partial charges on hydrogen, oxygen, and nitrogen atoms	U)	neutral fat
22)	a polymer of glucose, used as a structural component of plant cell walls	V)	nucleotide
23)	a polymer of glucose, used as a storage form for glucose in animals	W)	oxidation
24)	a polymer of glucose, used as a storage form for glucose in plants	X)	peptide bond
25)	a loss of Hydrogen atoms (or electrons)	Y)	phospholipid
26)	a lipid that is an important component of cell membranes and from which steroid hormones are made	Z)	
27)	a lipid composed of glycerol joined to 3 fatty acids	AA)	polymer
28)	a large organic molecule formed from a chain or chains of amino acids	BB)	primary structure