adenine

15.

16.

17.

18.

19.

22.



g

nsaccl

glyce

Know the Terms

Select the most appropriate words from the list to complete the following paragraphs.

polysaccharide lipids cytosine proteins fatty acids	peptide bond saturated enzymes carbohydrates oxygen guanine organic compounds
	polysaccharide

Living organisms are composed of a special category of molecules called (1). Molecules must have both (2) and (3) atoms in them to be in this category. In addition they usually contain (4) atoms as well.

Sugars and starches are (5), which always have a carbon to hydrogen ratio of 2:1. They are composed of building blocks called (6). Two of these units can be attached to each other through a process called (7), which results in a (8). If more subunits are hooked on, we get a (9). This type of molecule can be broken into its building blocks again through the reverse reaction, called (10).

(11) have a hydrogen to oxygen ratio greater than 2:1 and include fats, oils, and waxes. If the carbon-to-carbon bonds in these molecules are all single bonds, they are said to be (12). If there are any double bonded carbons, the molecule is said to be (13). The building blocks of these molecules are (14) and (15)

The group of organic molecules that contain nitrogen are called (16). They have (17) as their building blocks. The bond connecting two of these together is called a (18). Some of these molecules function as (19), which catalyze chemical reactions within cells.

The group of organic molecules that were first discovered in the nucleus of the cell are called (20). There are two kinds of these molecules. They are (21) and (22). One of these is described as a double helix. Its subunits are composed of a five-carbon sugar, called (23), and one of four bases.

	ddeliiiie	
	gl ycerol	
	RNA	ition of
	Monosaccharides	101-
	di saecha ride ca rbon	
	u nsaturate d	
1	organic Compounds	: joined
2	Carton	,
3	hydrogen	, bil
4.	Otygen	the bu
5	Carbonydrates	
6	monosaccharide	s "buil
7.	dehydration Synthesis	
8	Polyaccharide disaccharide	s knov
9.	polysacchanide	
10.	@hydiolysis	, of pro
11.	Lipids	, 0 . ,
12.	Saturated	CIL
13.	UnSaturated	ire sur
14.	Fattyacid	

Rib deary rib OSR

amino acida

Peptide bone

enzymes

nuclei e Acid

Date

HAPTER REVIEW

CHAPTER



Inderstand the Concepts

Why are a hydrogen and hydroxyl removed during a dehydration synthesis reaction? They form H2O or water Which is removed to form bonds between 2 menomers
. Why are a hydrogen and hydroxyl necessary for hydrolysis? In the form of H2O they act to break the bond between 2 compounds to break down larger compound into Smaller.
And Can bond to each other - forms long chain
1. How is a peptide bond formed? Dehydration Synthesis between 2 amino acids
How are the two chains of a double helix held together? bonds that form between bases of apposite chains A > T C > G
Catalysts Can be revsed whout Changing in the Chemical Txn
7. Explain how glucose, fructose, and galactose can be different molecules even though they all have the same molecular formula (C ₆ H ₁₂ O ₆). Arranged differently
8. Why is the polar nature of a water molecule important to living organisms? Cohesian -> high specifiche. So temperature does not change drastically Adhesian -> 8 Substances dissolve in H20 Both -> Capillary action provide plants w H20