

Fill in the blanks.

The four general types of biological molecules are ___carbohydrates___, ___lipids___, ___proteins___, and ___nucleic acids___.

Biomolecules are synthesized by the process of ___dehydration___ ___synthesis___ and broken apart by the process of ___hydrolysis___.

Carbohydrates are composed of _C_, _H_, and _O_. Carbohydrates are soluble in water, so carbohydrates are _hydrophilic___.

One sugar molecule is called a _monosaccharide___.

Two sugar molecules linked by a covalent bond is called a _disaccharide___.

More than two sugar molecules linked by covalent bonds are called _polysaccharide___.

All lipids are insoluble in water, so lipids are called _hydrophobic___. The three classes of lipids are _fats/oils___, _phospholipids___, and ___steroids___.

A protein is composed of monomers termed _amino acids___. Each of these monomers are composed of 4 parts: _amino group___, _carboxyl group___, _variable group or side chain_ and _hydrogen atom___.

Nucleic acids are composed of monomers termed _nucleotides___. Each monomer has 3 parts: _5 carbon sugar___, _phosphate group___, and _nitrogenous base___.