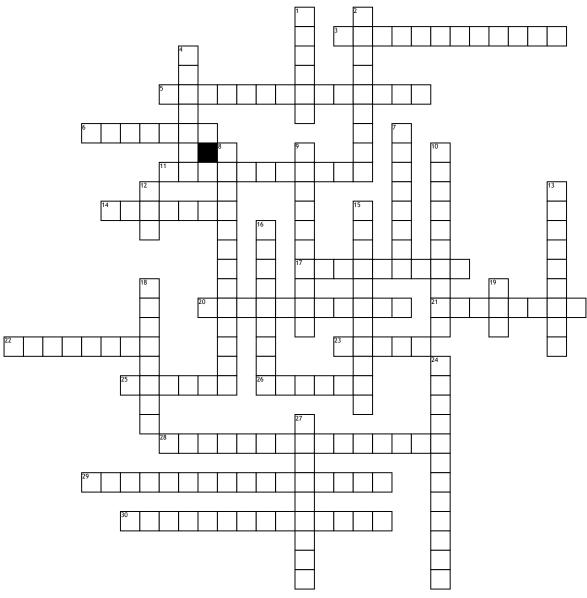
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MACROMOLECULES



Across

- 3. biological molecule consisting of carbon, hydrogen and oxygen atoms, usually with a hydrogen-oxygen atom ratio of
- 5. polymeric carbohydrate molecules composed of long chains of monosaccharide units bound together by glycosidic linkages and on hydrolysis give the constituent monosaccharides or oligosaccharides.
- **6.** a substance that has a molecular structure consisting chiefly or entirely of a large number of similar units bonded toget many synthetic organic materials
- 11. having carbon-carbon double or triple bonds and therefore not containing the greatest possible number of hydrogen atoms for the number of carbons.
- **14.** a molecule that may bind chemically or supramolecularly to other molecules to form a polymer 17. an insoluble substance that is the main constituent of plant cell walls and of vegetable fibers such as cotton.
- 20. covalent chemical bond formed between two amino acid molecules.
- 21, uncommon in nature but became commonly produced industrially from vegetable fats for use in margarine, snack food, packaged baked goods and frying fast food
- 22. a multibranched polysaccharide of glucose that serves as a form of energy storage in animals and fungi.
- 23. a group of naturally occurring molecules that include fats, waxes, sterols, fat-soluble vitamins, monoglycerides, diglycerides, triglycerides, phospholipids, and others

- 25. carbohydrate with the formula C5H10O5;
- 26. macromolecular biological catalysts
- 28. An organic compound is any member of a large class of gaseous, liquid, or solid chemical compounds whose molecules contain carbon.
- 29. minimum energy which must be available to a chemical system with potential reactants to result in a chemical reaction.
- 30. called simple sugars

- 1. amylum is a polymeric carbohydrate consisting of a large number of glucose units joined by glycosidic bonds 2. holding as much water or moisture as can be absorbed; thoroughly soaked.
- 4. large biomolecules, or macromolecules, consisting of
- one or more long chains of amino acid residues.

 7. simple polyol compound. It is a colorless, odorless, viscous liquid that is sweet-tasting and non-toxic
- **8.** large molecule, such as protein, commonly created by polymerization of smaller subunits
- 9. is a carboxylic acid with a long aliphatic chain, which is either saturated or unsaturated
- the region of an enzyme where substrate molecules bind and undergo a chemical reaction.
- 12. Ribonucleic acid is a polymeric molecule implicated in various biological roles in coding, decoding, regulation, and expression of genes

- 13. inorganic chemical and a salt of phosphoric acid.
- 15. organic molecules that serve as the monomers
- **16.** surface on which a plant or animal lives **18.** A hydrogen bond is the electrostatic attraction between polar groups that occurs when a hydrogen (H) atom bound to a highly electronegative atom such as nitrogen (N), oxygen (O) or fluorine (F) experiences attraction to some other nearby highly electronegative
- 19. Deoxyribonucleic acid is a molecule that carries the genetic instructions used in the growth, development, functioning and reproduction of all known living organisms and many viruses
- ${\bf 24.}$ biopolymers, or large biomolecules, essential for all known forms of life.
- 27. biologically important organic compounds containing amine and carboxylic acid functional groups,