SECTION 3-3 REVIEW

MOLECULES OF LIFE

VOCABULARY REVIEW Distinguish between the terms in each of the following pairs of terms.

- 1. monosaccharide, polysaccharide
- 2. hydrophilic, hydrophobic
- 3. nucleotide, nucleic acid _____

MULTIPLE CHOICE Write the correct letter in the blank.

- ______ 1. Glycogen, starch, and cellulose are
 - a. monosaccharides. b. disaccharides.
- c. polysaccharides. d. simple sugars.
- 2. The different shapes and functions of different proteins are determined by
 - a. the R groups of the amino acids they contain.
 - the amino groups of the amino acids they contain.
- the carboxyl groups of the amino acids they contain.
- d, whether or not they contain any amino acids.

- _____ 3. Most enzymes
 - a. are changed by the reactions they catalyze.
 - increase the activation energy of the reactions they catalyze.
- strengthen the chemical bonds in their substrate.
- d. are sensitive to changes in temperature or pH.
- 4. The large numbers of carbon-hydrogen bonds in lipids
 - a. make lipids polar.
 - store more energy than the carbonoxygen bonds in other organic compounds.
- c. allow lipids to dissolve in water.
- are found in the carboxyl group at the end of the lipid.
- The most important function of nucleic acids is
 - a. catalyzing chemical reactions.
 - forming a barrier between the inside and outside of a cell.

- storing energy.
- storing information related to heredity and protein synthesis.

Study Guide On The Molecules Of Life

Pasquale De Marco

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