

Structure & Function of Biomolecules – Part 2

1. The polymer in a nucleic acid is a(n) _____.
 - a. Cellulose
 - b. Polynucleotide
 - c. Ribose
2. The sugar in RNA is _____.
 - a. Cellulose
 - b. Glucose
 - c. Ribose
3. The sugar in DNA is _____.
 - a. Deoxyribose
 - b. Fats
 - c. Proteins
4. Plant cell walls consist mainly of _____.
 - a. Proteins
 - b. Cellulose
 - c. Nucleic acids
5. Which of the following is true of **cellulose**?
 - a. It is a major structural component of plant cell walls.
 - b. It is the principal molecule in butter
 - c. It dissolves in water
6. The characteristic that all lipids have in common is that _____.
 - a. They replace salt in the body
 - b. none of them dissolves in water
 - c. they have proteins
7. Characteristic of unsaturated fats:
 - a. They have more oxygen than saturated fats
 - b. They have multiple double bonds and fewer hydrogens in the carbon chains of their fatty acids
 - c. They are full of nucleotides
8. Characteristic of saturated fats:
 - a. They are the principal molecules in lard and butter
 - b. They are main fibers in oats
 - c. They are the last cells to digest
9. The building blocks or monomers of nucleic acid molecules are called _____.
 - a. Proteins
 - b. Lipids
 - c. Nucleotides
10. Can be used as a wax to repel water:
 - a. lipid/fat
 - b. carbohydrates
 - c. proteins

11. Stores the genetic information of an individual:
 - a. cellulose
 - b. nucleic acid
 - c. polynucleus
12. Provides an organism with long term energy
 - a. glucose
 - b. cellulose
 - c. fat/lipid
13. Major component of body structures, such as: hair, nails, muscle, etc
 - a. vitamins
 - b. neurons
 - c. proteins
14. Molecule that can be sweet:
 - a. Saturated fats
 - b. Carbohydrates – monosaccharides
 - c. Fats
15. Molecule that can be starchy
 - a. carbohydrates – polysaccharides
 - b. proteins
 - c. fats
16. Molecule that contains CHONS:
 - a. Saturated fats
 - b. Protein
 - c. Fatty acids
17. Molecule that contains CHONP:
 - a. proteins
 - b. unsaturated fats
 - c. nucleic acid
18. Molecule that can speed up chemical reactions
 - a. Lipids
 - b. Proteins
 - c. Fats
19. Testosterone and estrogen are examples of _____.
 - a. Proteins
 - b. Fats
 - c. Lipids
20. This molecule is found in meats:
 - a. Protein
 - b. Fatty acids
 - c. lipids