

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