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 that 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

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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

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