

Structure & Function of Biomolecules – Part 1

1. Name the 4 types of macromolecules
 - a. Carbohydrates, proteins, lipids, and nucleic acids
 - b. Proteins, meats, eggs, and acids
 - c. Polysaccharides, Lipids, Polymers, and steroids
2. Long molecules consisting of many similar or identical building blocks linked by covalent bonds.
 - a. Lipids
 - b. Polymers
 - c. Proteins
3. Carbohydrates are made up of _____.
 - a. Proteins and lipids
 - b. Nucleotides
 - c. Monosaccharides
4. Three or more monosaccharides linked together form a _____.
 - a. Polysaccharide
 - b. Channels
 - c. Structure
5. Stored carbohydrate in an animal is called _____; in a plant, it is _____.
 - a. Glycogen; starch
 - b. Fats; chlorophyll
 - c. Protein, fatty acid
6. Cushioning of organs, insulation, and energy storage are three functions of _____.
 - a. Polymers
 - b. Unsaturated fats
 - c. Lipids
7. Triglyceride [a lipid] is composed of a _____ and three _____.
 - a. Glycerol; fatty acid chains
 - b. Steroid; unsaturated fatty acids
 - c. Cellulose; amino acid proteins
8. Fats with one or more double covalent bonds, which is less likely to solidify and more flexible.
 - a. Saturated fats
 - b. Unsaturated fats
 - c. Added fats
9. Hormone based lipid that helps the body to regulate body functions
 - a. Protein
 - b. Steroid
 - c. Fat
10. The monomer in a protein is a(n) _____.
 - a. Amino acid
 - b. Saturated fats
 - c. Fatty acid

11. How many different amino acids can assemble according to genetic code to make different proteins?
- a. 20
 - b. 41
 - c. 55
12. The polymer in a protein is a(n) _____.
- a. Channel
 - b. Polymer
 - c. Polypeptide
13. A protein's _____ determines its function.
- a. DNA
 - b. Structure
 - c. size
14. Insulin and glucagon are examples of _____.
- a. Fatty acids
 - b. Hormonal proteins
 - c. Saturated fats
15. Protein _____ move molecules into and out of cells.
- a. Rivers
 - b. Veins
 - c. Channels
16. Nucleic acids are composed of _____.
- a. Lipids
 - b. Polymers and Polysaccharides
 - c. Nucleotides