

Biology – Biological Compounds Test [study guide]

Multiple Choice: *Instructions: Select the answer which best completes the following statements.*

- _____ 1. Large molecules made up of repeating subunits are called
- _____ 2. Which of the following is NOT a macromolecule:
- _____ 3. The “building blocks” of biological compounds are called
- _____ 4. Which compound contains the most energy:
- _____ 5. Polymers are created by what type of chemical reaction?
- _____ 6. Which of the following is NOT an example of a polysaccharide?
- _____ 7. Which of the following compounds make up proteins?
- _____ 8. Which of the following carbohydrates are found in plants?
- _____ 9. Which of the following is NOT a possible use for a carbohydrate?
- _____ 10. What chemical test indicates the presence of carbohydrates?
- _____ 11. Fats are made of what building block molecules?
- _____ 12. Which of the following best describes a saturated fat?
- _____ 13. Phospholipids are components of
- _____ 14. How many amino acids are found in nature?
- _____ 15. How many amino acids can your body make on its own?
- _____ 16. Which of the following is NOT a function of proteins?
- _____ 17. What chemical test indicates the presence of proteins?
- _____ 18. What chemical test indicates the presence of salts?
- _____ 19. The properties of an amino acid depend on its
- _____ 20. Which of the following is NOT a lipid:

True/False:

*Instructions: Label each statement as true or false by indicating **A for true, B for false.***

- _____ 1. Animals cannot break down starch because it has a different molecular shape than cellulose
- _____ 2. Animal fats are liquid at room temperature
- _____ 3. The positive test result for silver nitrate is a dark blue color
- _____ 4. Saturated fats have at least one carbon-to-carbon double bond
- _____ 5. Fats yield the most energy per gram of all macromolecules.
- _____ 6. Carbohydrates are used for storage, support, and transport.
- _____ 7. A positive result for Benedict’s test is a yellow-orange color.
- _____ 8. Training athletes should consume 1.8-2.0 grams of protein per kilogram of body weight per day.
- _____ 9. The common name for sucrose is table sugar.
- _____ 10. Cholesterol is a steroid lipid.

Completion:

Instructions: fill in the blank with the missing information.

- 1. _____ is the common name for glucose.
- 2. _____ is a disaccharide made of a glucose and a fructose molecule.
- 3. _____ is the scientific name for a fat.
- 4. The exoskeletons of insects are made from the polysaccharide _____.
- 5. _____ is a carbohydrate that is used for structural support in plants.
- 6. Simple carbohydrates are called _____.
- 7. Extra glucose is stored in the form of _____, and is found in the _____.
- 8. The structural polysaccharide found in plants is called _____.
- 9. The molecule that makes cell membranes more or less fluid is called _____.
- 10. Doctors suggest that high school-aged kids should get _____ to _____ % of their diet from carbohydrates.