

KEY

- \_\_\_\_\_ are used in animals as a source of quick energy that can be stored in the liver and muscles.
  - Proteins
  - Nucleic acids
  - Carbohydrates**
  - Lipids
- The polarity of water is responsible for which properties? (check all that apply)
  - Cohesion**
  - Adhesion**
  - Surface tension**
  - Acts as a strong solvent**
- Which of the following is NOT a polysaccharide?
  - Glycogen
  - Starch
  - Sucrose**
  - Cellulose
- Hydrophilic molecules are attracted to water.
  - True**
  - False
- Lipids are large, nonpolar organic molecules. They include waxes and steroids.
- Acids have a high pH.
  - True
  - False**
- Nucleic acids are obtained from food.
  - True
  - False**
- The number that indicates a neutral pH.
  - 0
  - 5
  - 7**
  - 10
- The 20 amino acids can be combined to form thousands of different proteins.
- Meat, nuts, beans, milk, cheese, and eggs are all sources of protein.

11. What are the monomers of lipids?

(C) Fatty acids and glycerol

12. In what temperature range does water exist as a liquid?

(B) 0-100°C

13. The name given to the cohesion of water molecules at the surface of a body of water.

(A) surface tension

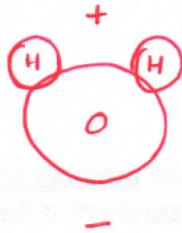
14. This biological macromolecule is responsible for controlling the activity of the cell, and it stores and transports genetic material.

(B) Nucleic acid

15. attracted  
positive  
negative  
cohesive  
1pt. ea.

16. A change in pH could denature the enzyme.  
The change in shape would make it unable to  
3pts bind to a substrate and catalyze a reaction.  
1pt 1pt

17. H<sub>2</sub>O



3pts : 1pt for <sup>correct</sup> drawing  
1pt for <sup>correctly</sup> labeling atoms  
1pt for <sup>correctly</sup> labeling charges