Carbohydrates Worksheet

1. Organic molecules all contain the element _______________________.

2. What element(s) are in carbohydrates? ______________________________________

3. Plants use this polysaccharide to make their cell walls. _________________________

4. True or False Carbohydrates are joined together by peptide bonds.

5. True or False A disaccharide is an example of a carbohydrate.

6. True or False Monosaccharides are made of polysaccharides.

7. True or False Monosaccharides have to be broken down many times during digestion.

8. True or False Polymers are made of monomers.

9. True or False Polysaccharides are the simplest form of carbohydrates

10. ____________ Carbohydrates provide quick/instant energy while ____________ carbohydrates provide long term energy.

11. _________________ is the most common type of Carbohydrate in our diets. (Found in bread/potatoes)

12. Give an example of a type of monosaccharide _________________________________
   a. What food can this be found in? _____________________________________________

13. Give an example of a type of polysaccharide _________________________________
   a. What food can this be found in? _____________________________________________

14. What is the chemical formula for all monomers of carbohydrates? ________________

15. Label the three monosaccharides in the pictures below.
   a. Are these monomers or polymers? __________________________
   b. What characteristics determines which monosaccharide it is? ___________________
   c. The three monosaccharides below have the same chemical formula, but different shapes, so they are known as __________________________.

16. The chemical combination of two simple sugar molecules makes sucrose which is a common: __________________________

17. Starches are to Monosaccharides as Polymers are to ____________________.
18. Draw a glycogen molecule. Be sure to label the elements/atoms.
   a. What is its purpose? ________________________________
   b. Where is it stored? ________________________________

19. Draw a starch molecule. Be sure to label the elements/atoms.
   a. What type of organisms store lots of starch? ________________________________

Carbohydrate Levels of Organization

Monomer: ___________________________

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“In-Between”_________________________

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<th>Example</th>
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Polymer___________________________

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