

Name: \_\_\_\_\_

Date: \_\_\_\_\_

[6 pt] 1. Answer the following questions about amylose and cellulose.

(a) What are two structural differences between amylose and cellulose?

(b) Draw an example of the linkage between two molecules of amylose and two molecules of cellulose.

(c) Biologically what are two impacts of the structural difference?

[6 pt] 2. Answer the following questions about starch.

(a) What are the two main components of starch?

(b) Structurally what two features are the same? Explain.

(c) Structurally what two features are different? Explain.

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[6 pt] 3. Discuss briefly the 3 most important functions of Carbohydrates for life.

(a)

(b)

(c)

[9 pt] 4. For each of the following list the carbohydrates **AND** one important use/fact for each.

(a) 3 most common Monosaccharides

(b) 3 most common Disaccharides

(c) 3 most common Polysaccharides

[3 pt] 5. Briefly discuss the importance of sugars in **one** of the following topics **OR** for bonus points find and discuss a topic not covered in the book. Options are:

(a) Invert Sugars

(b) High-Fructose Corn Syrup

(c) Artificial Sweeteners

(d) Cancer Screening

(e) Human Blood Typing