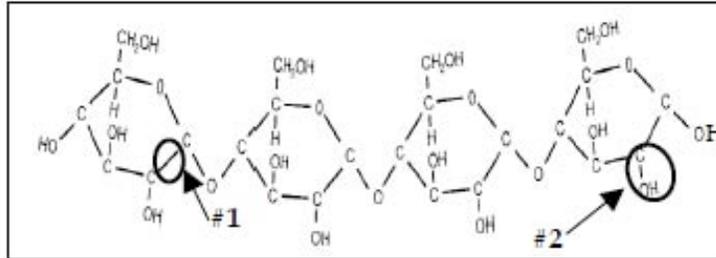


Practice Problems for Biochemistry, Session 2: Covalent Bonds, Hydrogen Bonds

Question 1

Consider the following carbohydrate.



a) Name each bond or interaction that is circled in the schematic above. Explain why you selected these options. Choose from polar covalent, nonpolar covalent, ionic, hydrophobic, van der Waals.

- Bond #1 (C-C):
- Bond #2 (C-OH):

b) Would you expect this polymer to be soluble in an aqueous environment? Explain your answer.

c) What type of bonds or interactions can occur between two such polymers? Choose from: covalent, hydrogen, hydrophobic, ionic, van der Waals. Explain your answer.

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7.01SC Fundamentals of Biology
Fall 2011

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