- 1. Aldoses always have 6 carbons. False
- 2. Aldohexoses always have 6 carbons. True
- 3. Ribose is a <u>C3</u> epimer of xylose. C3
- 4. The anomeric carbon in aldoses is always <u>C1</u>.
- 5. If a primary alcohol of glucose is oxidized, what is the name of the resulting molecule? Glucuronic acid.
- 6. The common modified sugar, Glucosamine, contains an amine group at what position? C2
- 7. Which of the following accurately describe the glycosidic bond in sucrose? glucose C1 --> fructose C2
- 8. What is the difference between alpha and beta glycosidic bonds? The stereochemistry. For D-sugars, the β orientation puts the OH in an equatorial position and is more favorable.
- 9. What are biofilms and what are they typically made of? An extracellular matrix made by bacteria so that they can control the environment that they grow in. Commonly, glucosamine and galacturonic acid are part of the polymeric sugar structues.
- 10. What sugars are important in the structure of peptidoglycans. NAG and NAM
- 11. What amino acids are commonly glycosylated in glycoproteins? Asn (N-linked) and Thr/Ser (O-linked)