Lecture 6: Active Learning Questions

1. Dr. Brilla at Western Washington compares the GI tract to a doughnut. In her analogy, what does the *hole of the doughnut* represent? List 3 *accessory organs of digestion*. Draw a doughnut below and include within your sketch an *accessory organ of digestion*. How are the *doughnut body and accessory organ connected*? Draw and *label* this connection.

![Doughnut Sketch](image.png)

2. What is *hydrolysis*? What 3 *elements* or components are required for *hydrolysis* to take place? List 3 general *energy nutrient polymers* and their corresponding *monomers* that are produced as end-products of enzymatic digestion.

3. *What energy nutrients* are digested by *pancreatic enzymes*? What else does the *pancreas* do besides produce enzymes for digestion? List at least 2 *other functions*.

4. *Where* does most absorption of *essential nutrients* take place in the gut? *What is lactose intolerance*? What % of *humans worldwide* have lactose intolerance? What steps can be taken to *minimize the effects* of lactose intolerance?

5. *What* are the parts of the *large intestine*? *What* are the *major functions* of the large intestine?