

Lecture 6: Active Learning Questions

1. 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.
2. If a doughnut is compared to the *human gastrointestinal/digestive system* (Dr. Brilla's doughnut analogy!), what does the *hole of the doughnut* represent? List 3 *accessory organs* of digestion. Draw a doughnut below and indicate *where an accessory organ of digestion* would be within your simple sketch.
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?