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?