Chapter 45 Questions

1. Why does a hormone elicit a response only with target cells?
2. Explain five different types of signals.
3. Compare the action of hormones, local regulators, neurotransmitters, and pheromones and give an example of each.
4. How do the mechanisms that induce responses in target cells differ for water-soluble hormones and lipid soluble hormones? Be sure to identify binding sites.
5. Describe the role of the feedback system involved in blood sugar control. Be sure to include stimulus, response, and all hormones and organs involved.
6. Explain the signal transduction pathway for epinephrine.
7. How is oxytocin an example of a hormone that is under positive regulation of the endocrine system?
8. Distinguish between type 1 diabetes and type 2 diabetes. 23. Which type of diabetes is correlated with obesity?