

Chapter 17, The Endocrine System

“Apply What You Know” Answers

- p. 639—The neuroendocrine reflex in ADH secretion is an example of homeostasis. Dehydration triggers a reflex that ultimately promotes water conservation by the kidneys, thus helping to maintain a homeostatic state of water balance.
- p. 639—If the thyroid gland is removed, TSH level rises because the hypothalamus and pituitary gland no longer receive negative feedback inhibition from the thyroid.
- p. 645—In pregnancy, the maternal body must mobilize nutrients for the development of the fetus. One of the principal hormones to do this is cortisol, and the rise in cortisol secretion comes about by growth of the zona fasciculata.
- p. 651—The carbohydrate moiety of a glycoprotein hormone is added by the Golgi complex.