

# Hormones and Feedback Systems

## Biology 3201

Directions:

- A. Use your textbook to find the words that are missing from the chart below.
- B. Answer the following questions.

1. Name the pituitary hormone that does not influence the secretion of another endocrine hormone.  
\_\_\_\_\_
2. A, B, and C represent negative feedback mechanisms. In which of these three mechanisms is a pituitary hormone the direct inhibitor of its own secretion? \_\_\_\_\_
3. Which feedback loop does not depend on inhibition of the hypothalamus? \_\_\_\_\_
4. Describe the series of events which would stabilize mechanism A if the level of Hormone 12 is too low.  
\_\_\_\_\_  
\_\_\_\_\_
5. Why are LH and FSH referred to as “gonadotropins”? \_\_\_\_\_

**Key:** Dotted lines represent feedback loops.

Solid lines represent a series of actions. Eg. Hypothalamus produces releasing factors, which stimulate the anterior pituitary to release HGH, which acts upon 9, which releases 15, which causes 19

**Note:** 1, 5, and 6 are pituitary hormones, 7-11 are glands or organs, 14-16 are hormones, and 18-20 are effects of hormone action.

