Naı	me Class Date				
Cl	napter 39 Endocrine and Reproductive Systems				
Se	ection 39-1 The Endocrine System (pages 997-1002)				
C	Key Concepts				
•	What is the function of the endocrine system?				
•	How does the endocrine system maintain homeostasis?				
Int	troduction (page 997)				
1.	What makes up the endocrine system?				
2.	What do the products of the endocrine system do?				
Hα	ormones (page 997)				
	Chemicals released in one part of the body that travel through the bloodstream and				
	affect the activities of cells in other parts of the body are called				
4.	How do hormones affect the activities of other cells?				
_					
	Cells that have receptors for a particular hormone are referred to as				
6.	Is the following sentence true or false? Cells without receptors are not affected by				
_	hormones				
7.	Is the following sentence true or false? Generally, the body's responses to hormones are				
	quicker and shorter lasting than the responses to nerve impulses				
Gla	ands (page 998)				
8.	An organ that produces and releases a substance, or secretion, is called a(an)				
9.	What is an exocrine gland?				
10.	Glands that release sweat, tears, and digestive juices are consideredglands.				

Name		Class	Date		
11.	What is the function of the pa	arathyroid glands?			
Mat					
111111	tch the endocrine gland with the Endocrine Gland	Hormone It Produces			
	12. Pineal				
	13. Thyroid	O			
	14. Pancreas				
	15. Thymus				
	16. Adrenal	•			
	17. Ovary	·			
	18. Testis				
19	The hormone that regulates i	metaholism is			
	 a				
22.	cholesterol.		are produced from		
23.	 3. Circle the letter of each sentence that is true about nonsteroid hormones. a. They are proteins, small peptides, or modified amino acids. b. They can cross cell membranes. c. They rely on secondary messengers. d. They cannot enter the nucleus. 				
24.	Is the following sentence true or false? Secondary messengers may include calcium				
	ions, cAMP, nucleotides, and fatty acids				
	O staglandins (page 100 Hormonelike substances pro		s and tissues are called		

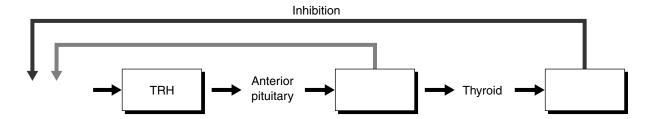
26. Why are prostaglandins known as "local hormones"?

27. Is the following sentence true or false? Some prostaglandins cause smooth muscles to contract. _____

Control of the Endocrine System (pages 1000-1001)

28. When does feedback inhibition occur?

29. Fill in the missing labels in the diagram to show how the thyroid gland is regulated by feedback controls.



- **30.** Circle the letter of each event that occurs when core body temperature begins to drop.
 - **a.** The hypothalamus produces less TRH.
 - **b.** More TSH is released.
 - **c.** Less thyroxine is released.
 - **d.** Metabolic activity increases.
- **31.** Is the following sentence true or false? As you lose water, the concentration of dissolved materials in the blood falls. _____

Complementary Hormone Action (page 1002)

32.	What is complementary hormone action?	

- **33.** Is the following sentence true or false? Calcitonin increases the concentration of calcium in the blood. _____
- **34.** If calcium levels drop too low, the parathyroid glands release ______.
- 35. How does PTH increase calcium levels? _____
- **36.** Why is the regulation of calcium levels so important?