Section 38–3 The Excretory System (pages 985–989)

C Key Concepts

- What are the functions of the kidneys?
- How is blood filtered?

Functions of the Excretory System (page 985)

- 1. The process by which metabolic wastes are eliminated is called ______
- 2. List four organs that are used for excretion.
 - с.____ a. _____ b. _____ d. ____
- 3. List three ways that the kidneys help maintain homeostasis.
 - a. _____
 - b. _____
 - C. _____

The Kidneys (pages 986–988)

- 4. Circle the letter of each sentence that is true about the kidneys.
 - **a.** They are the main organs of the excretory system.
 - **b.** They are located on either side of the spinal column.
 - c. They remove excess water and waste products from the urine.
 - **d.** They receive blood through the renal vein.

Match each term with its definition.

Term

Definition

a. Saclike organ where urine is stored _____ **5.** ureter **b.** Functional unit of the kidney _____ **6.** urinary bladder **c.** Outer part of the kidney _____ 7. renal medulla **d**. Tube that carries urine from the kidney to the _____ **8.** renal cortex urinary bladder _____ **9.** nephron **e.** Inner part of the kidney

10. Is the following sentence true or false? Nephrons are located in the renal medulla.

11. What ends up in the collecting duct?

- **12.** List the two processes involved in blood purification.
- 13. The small network of capillaries in the upper end of the nephron is referred to as the
- 14. The glomerulus is enclosed by a cup-shaped structure called the ______.

a. _____ b. _____

Name	C	lass	Date
15. Complete the Venn diagram.			
	Filtration	Reabsorption	I
Processes that take place in the nephron			
16. The materials that are filtered from the blood are collectively called the			
17. List six materials that are filtered from blood.			
a	C	e	

d. _____

18. Which substances are removed from the filtrate and reabsorbed by the capillaries?

19. What happens during the process of secretion?

f. _____

- **20.** Circle the letter of each sentence that is true about urine.
 - **a.** It is the material that remains after reabsorption.
 - b. It contains only urea and water.

b.

- c. It is concentrated in the loop of Henle.
- **d.** It is released from the body through the urethra.

Control of Kidney Function (page 988)

- 21. How are the activities of the kidneys controlled?
- **22.** Is the following sentence true or false? As the amount of water in the blood increases, the rate of water reabsorption in the kidneys increases. _____

Homeostasis by Machine (pages 988–989)

23. Is the following sentence true or false? Humans cannot survive with only one kidney.

^{24.} The removal of wastes from blood using a machine is called ______.