| Name: | Class: | Date: | ID: A |
|-------|--------|-------|-------|
|       |        |       |       |

# **Excretory System**

### **Multiple Choice**

Identify the choice that best completes the statement or answers the question.

| <br>1. | As a result of osmotic pressure, water, glucose nephron? | , and | waste products are filtered into which part of the |
|--------|--|-------|--|
|        | a. Urethra   | c.    | Bowman's capsule                                   |
|        | b. Distal tubule   | d.    | Ureter   |
| 2.     | Which organ filters blood that has collected wa          | astes | from cells throughout the body and maintains the   |
|        | homeostasis of body fluids?                              |       |  |
|        | a. kidneys   | c.    | lungs  |
|        | b. heart   | d.    | pacemaker  |
| 3.     | Which of the following stores urine before being         | ng ey | spelled from the body?                             |
|        | a. urinary bladder                                       | c.    | kidneys  |
|        | b. urethra   | d.    | ureters  |
| 4.     | The filtering unit of the kidney is the .                |       |  |
|        | a. bladder   | c.    | nephron  |
|        | b. ureter  | d.    | urethra  |
| 5.     | Which of the following is a function of the kid          | ney?  |  |
|        | a. remove wastes from the blood                          | c.    | adjust the salt level of the blood                 |
|        | b. adjust the fluid level of the blood                   | d.    | all of the above                                   |

### **True/False**

Indicate whether the statement is true or false.

- 6. The major waste products of the cells are ammonia and the wastes from the breakdown of proteins.
- 7. As the liquid passes through the U-shaped tubule in the nephron, most of the ions and water and all of the glucose and amino acids are reabsorbed into the bloodstream.

### Completion

*Complete each statement.* 

- 8. \_\_\_\_\_\_ and \_\_\_\_\_\_ are two toxic nitrogenous wastes that your kidneys constantly remove from your bloodstream.
- 9. The kidneys also help regulate the blood's \_\_\_\_\_\_, and

10. Individuals with diabetes have excess levels of \_\_\_\_\_\_ in their blood.

### Matching

Match each item with the correct statement below.

| a. | hemoglobin | i. | aorta     |
|----|------------|----|-----------|
| b. | antigen    | j. | platelets |
| c. | trachea    | k. | pulse     |
| d. | nephron    | 1. | antibody  |
| e. | artery     | m. | plasma    |
| f. | atrium     | n. | capillary |
| g. | alveoli    | 0. | ventricle |
| h. | urine      | p. | vein      |

\_\_\_\_\_ 11. A filtering unit in the kidney

12. Solution of body wastes consisting of excess water, waste molecules, and excess ions

#### **Short Answer**

- 13. What is the major function of kidneys?
- 14. What role does the bladder play in the urinary system?
- 15. What are nephrons?
- 16. The amount of salt in your diet varies considerably, and yet many processes of your body require that salt levels not vary too much. Which system helps your body maintain homeostasis of salt levels? How?
- 17. Identify the major functions of the excretory system.
- 18. Describe the pathway a waste molecule takes out of the body through the kidney.

## Excretory System Answer Section

### **MULTIPLE CHOICE**

| 1.      | ANS:   | С                |         |                   |        |                |      |      |
|---------|--------|------------------|---------|-------------------|--------|----------------|------|------|
|         | Partic | les from the blo | ood are | filtered into the | e Bown | nan's capsule. |      |      |
|         | PTS:   | 1                |         |                   |        |                |      |      |
| 2.      | ANS:   | Ā                | PTS:    | 1                 | DIF:   | В              | OBJ: | 37-7 |
|         | NAT:   | C5   F1   G1     |         |                   |        |                |      |      |
| 3.      | ANS:   | Α                | PTS:    | 1                 | DIF:   | В              | OBJ: | 37-7 |
|         | NAT:   | C5   F1   G1     |         |                   |        |                |      |      |
| 4.      | ANS:   | С                | PTS:    | 1                 | DIF:   | В              | OBJ: | 37-7 |
|         | NAT:   | C5   F1   G1     |         |                   |        |                |      |      |
| 5.      | ANS:   | D                | PTS:    | 1                 | DIF:   | В              | OBJ: | 37-7 |
|         | NAT:   | C5   F1   G1     |         |                   |        |                |      |      |
|         |        |                  |         |                   |        |                |      |      |
| TRUE/FA | LSE    |                  |         |                   |        |                |      |      |
| 6.      | ANS:   | T                | PTS:    | 1                 | DIF:   | В              | OBJ: | 37-7 |

 NAT: C5 | F1 | G1

 7. ANS: T
 PTS: 1
 DIF: B
 OBJ: 37-7

 NAT: C5 | F1 | G1

### COMPLETION

| 0  | 1 1 10 |          |      |
|----|--------|----------|------|
| 8. | ANS:   | Ammonia, | urea |

PTS: 1

9. ANS: osmotic pressure, pH sodium level, pH

PTS: 1

- 10. ANS: glucose
  - PTS: 1

### MATCHING

| 11. | ANS: D            | PTS: 1 | DIF: B | OBJ: 37-7 |
|-----|-------------------|--------|--------|-----------|
|     | NAT: C5   F1   G1 |        |        |           |

12. ANS: H PTS: 1 DIF: B OBJ: 37-7 NAT: C5 | F1 | G1

#### SHORT ANSWER

13. ANS:

to filter wastes from blood in order to maintain fluid homeostasis

PTS: 1

14. ANS:

It stores the waste solution, urine.

PTS: 1

15. ANS: the basic filtering units in kidneys

PTS: 1

16. ANS:

The urinary system, with help from the hormone aldosterone, stimulates reabsorption of sodium and chloride ions. If a person takes in too much salt, aldosterone production decreases and more sodium is eliminated.

PTS: 1 DIF: A OBJ: 37-8 NAT: A1 | A2 | C5

17. ANS:

The excretory system functions in maintaining homeostasis. Many chemicals are balanced in the blood by passing through the filtration system of the kidneys. In addition, nitrogenous wastes are removed from the body through this system.

PTS: 1 DIF: A OBJ: 37-7 NAT: C5 | F1 | G1

18. ANS:

From the blood, the waste molecule is filtered out by the nephron, passed to the ureter, to the bladder, and to the outside through the urethra.

PTS: 1 DIF: B OBJ: 37-7 NAT: C5 | F1 | G1