

15

THE URINARY SYSTEM

Metabolism of nutrients by body cells produces various wastes such as carbon dioxide and nitrogenous wastes (creatinine, urea, and ammonia), as well as imbalances of water and essential ions. The metabolic wastes and excesses must be eliminated from the body. Essential substances are retained to ensure proper body functioning.

Although several organ systems are involved in excretory processes, the urinary system bears the primary responsibility for removing nitrogenous wastes from the blood. In addition to this purely excretory function, the kidneys maintain the electrolyte, acid-base, and fluid balances of the blood. Thus, kidneys are major homeostatic organs of the body. Malfunction of the kidneys leads to a failure of homeostasis, resulting (unless corrected) in death.

Student activities in this chapter are concerned with identification of urinary system structures and with examining urine composition and physiological processes involved in urine formation. It also focuses on the composition of the body's fluid compartments and the water, electrolyte, and acid-base balance of these compartments.

1. Complete the following statements by inserting your answers in the answer blanks.

1. Nitrogenous
2. Water
3. Acid-base
4. Kidney
5. Urea
6. poisonous
7. urinary bladder
8. urethra

The kidney is referred to as an excretory organ because it excretes (1) wastes. It is also a major homeostatic organ because it maintains the electrolyte, (2), and (3) balance of the blood. Urine is continuously formed by the (4) and is routed down the (5) by the mechanism of (6) to a storage organ called the (7). Eventually the urine is conducted to the body exterior by the (8). In males, this tube-like structure is about (9) inches long; in females, it is approximately (10) inches long.

9. 9
10. 4-5

Anatomy And Physiology Urinary System Packet Answers

D Kirk



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Table of Contents Anatomy And Physiology Urinary System Packet Answers

1. Understanding the eBook Anatomy And Physiology Urinary System Packet Answers
 - The Rise of Digital Reading Anatomy And Physiology Urinary System Packet Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Anatomy And Physiology Urinary System Packet Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Anatomy And Physiology Urinary System Packet Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Anatomy And Physiology Urinary System Packet Answers
 - Personalized Recommendations
 - Anatomy And Physiology Urinary System Packet Answers User Reviews and Ratings
 - Anatomy And Physiology Urinary System Packet Answers and Bestseller Lists

5. Accessing Anatomy And Physiology Urinary System Packet Answers Free and Paid eBooks
 - Anatomy And Physiology Urinary System Packet Answers Public Domain eBooks
 - Anatomy And Physiology Urinary System Packet Answers eBook Subscription Services
 - Anatomy And Physiology Urinary System Packet Answers Budget-Friendly Options
6. Navigating Anatomy And Physiology Urinary System Packet Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Anatomy And Physiology Urinary System Packet Answers Compatibility with Devices
 - Anatomy And Physiology Urinary System Packet Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Anatomy And Physiology Urinary System Packet Answers
 - Highlighting and Note-Taking Anatomy And Physiology Urinary System Packet Answers
 - Interactive Elements Anatomy And Physiology Urinary System Packet Answers
8. Staying Engaged with Anatomy And Physiology Urinary System Packet Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Anatomy And Physiology Urinary System Packet Answers
9. Balancing eBooks and Physical Books Anatomy And Physiology Urinary System Packet Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Anatomy And Physiology Urinary System Packet Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Anatomy And Physiology Urinary System Packet Answers
 - Setting Reading Goals Anatomy And Physiology Urinary System Packet Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Anatomy And Physiology Urinary System Packet Answers
 - Fact-Checking eBook Content of Anatomy And Physiology Urinary System Packet Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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