

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. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

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.

Anatomy Ch 15 Urinary Packet Answer

Lois A Ball

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Table of Contents Anatomy Ch 15 Urinary Packet Answer

1. Understanding the eBook Anatomy Ch 15 Urinary Packet Answer
 - The Rise of Digital Reading Anatomy Ch 15 Urinary Packet Answer
 - Advantages of eBooks Over Traditional Books
2. Identifying Anatomy Ch 15 Urinary Packet Answer
 - 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 Ch 15 Urinary Packet Answer
 - User-Friendly Interface
4. Exploring eBook Recommendations from Anatomy Ch 15 Urinary Packet Answer
 - Personalized Recommendations
 - Anatomy Ch 15 Urinary Packet Answer User Reviews and Ratings
 - Anatomy Ch 15 Urinary Packet Answer and Bestseller Lists

5. Accessing Anatomy Ch 15 Urinary Packet Answer Free and Paid eBooks
 - Anatomy Ch 15 Urinary Packet Answer Public Domain eBooks
 - Anatomy Ch 15 Urinary Packet Answer eBook Subscription Services
 - Anatomy Ch 15 Urinary Packet Answer Budget-Friendly Options
6. Navigating Anatomy Ch 15 Urinary Packet Answer eBook Formats
 - ePUB, PDF, MOBI, and More
 - Anatomy Ch 15 Urinary Packet Answer Compatibility with Devices
 - Anatomy Ch 15 Urinary Packet Answer Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Anatomy Ch 15 Urinary Packet Answer
 - Highlighting and Note-Taking Anatomy Ch 15 Urinary Packet Answer
 - Interactive Elements Anatomy Ch 15 Urinary Packet Answer
8. Staying Engaged with Anatomy Ch 15 Urinary Packet Answer
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Anatomy Ch 15 Urinary Packet Answer
9. Balancing eBooks and Physical Books Anatomy Ch 15 Urinary Packet Answer
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Anatomy Ch 15 Urinary Packet Answer
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Anatomy Ch 15 Urinary Packet Answer
 - Setting Reading Goals Anatomy Ch 15 Urinary Packet Answer
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Anatomy Ch 15 Urinary Packet Answer
 - Fact-Checking eBook Content of Anatomy Ch 15 Urinary Packet Answer
 - 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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