

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. Metabolic wastes
8. ureters

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

Urinary System Coloring Workbook

G Thomas

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the author's name.

Urinary System Coloring Workbook:

This book delves into Urinary System Coloring Workbook. Urinary System Coloring Workbook is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Urinary System Coloring Workbook, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Urinary System Coloring Workbook
 - Chapter 2: Essential Elements of Urinary System Coloring Workbook
 - Chapter 3: Urinary System Coloring Workbook in Everyday Life
 - Chapter 4: Urinary System Coloring Workbook in Specific Contexts
 - Chapter 5: Conclusion
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- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Urinary System Coloring Workbook.

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