

Chapter 17 Blood

Blood Content:

plasma + formed elements

formed elements - living blood

"cells" suspended in plasma

- **Erythrocytes** - (RBCs) red blood cells
- **leukocytes** - (WBCs) white blood cells
- **platelets** - cell fragments



- plasma

(Buffy coat)
- WBCs + platelets
- RBCs

plasma - non living fluid matrix

90% water

60% albumin

36% Globulins

4% fibrinogen

- nutrients
- hormones
- wastes
- gases
- proteins

Sticky, opaque, metallic taste pH = 7.35 - 7.45

high O_2 - scarlet, low O_2 - dark red V = 5-6L men, 4-5L women

Blood function:

1. **Distribution** - delivering O_2 and nutrients to body cells; transporting metabolic wastes to lungs and kidneys for elimination; transporting hormones from endocrine organs to target organs
2. **Regulation** - maintaining body temp by absorbing and distributing heat; maintaining normal pH buffer; maintaining adequate fluid volume in circulatory system
3. **protection** - preventing blood loss - plasma proteins and platelets $\rightarrow$ clot formation; preventing infection

RBCs



Spectrin - provides flexibility to change shape

no nucleus

biconcave disks, **anucleate**, no organelles

RBC function: respiratory gas transport, hemoglobin binds with O_2

• 97% hemoglobin

form fib function

Hemoglobin - protein in RBC that carries oxygen

Hb

Globin: **Heme**:

- 4 polypeptide chains
- pigment bonded to globin
- 2 alpha + 2 beta chains
- chain - gives blood red color

Oxyhemoglobin - ruby red - O_2 loading in lungs

deoxyhemoglobin - dark red - O_2 unloading in tissues

Carbaminohemoglobin - 20% CO_2 in blood binds to Hb

- heme iron (Fe) binds to 1 O_2
- RBC - 250mil Hb molecules
- Each Hb can produce 4 O_2

Hematopoiesis

- formation of blood cells in red bone marrow

hemocytoblasts - hematopoietic Stem Cells

hematocrit - % of blood volume that is in RBCs

49% $\pm$ 5% (males), 42% $\pm$ 5% (females)

Anatomy Study Guide Blood

Barbara J Aehlert



Anatomy Study Guide Blood:

The Enigmatic Realm of **Anatomy Study Guide Blood**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Anatomy Study Guide Blood** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of people who partake in its reading experience.

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Table of Contents **Anatomy Study Guide Blood**

1. Understanding the eBook **Anatomy Study Guide Blood**
 - The Rise of Digital Reading **Anatomy Study Guide Blood**
 - Advantages of eBooks Over Traditional Books
2. Identifying **Anatomy Study Guide Blood**
 - 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 Study Guide Blood**
 - User-Friendly Interface
4. Exploring eBook Recommendations from **Anatomy Study Guide Blood**
 - Personalized Recommendations
 - **Anatomy Study Guide Blood** User Reviews and Ratings
 - **Anatomy Study Guide Blood** and Bestseller Lists

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