

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		• nutrients
60% albumin		• hormones
36% Globulins		• wastes
4% fibrinogen		• gases
		• proteins

Sticky, opaque, metallic taste pH = 7.35 - 7.45
high O₂ - scarlet, low O₂ - dark red V = 5-6L men, 4-5L women

Blood function:

1. **Distribution** - delivering O₂ 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 buffers; maintaining adequate fluid volume in circulatory system
3. **Protection** - preventing blood loss - plasma proteins and platelets → clot formation; preventing infection

RBCs



Spectrin - provides flexibility to change shape • 97% hemoglobin form fib function
no nucleus

biconcave disks, **anucleate**, no organelles

RBC function: respiratory gas transport, hemoglobin binds with O₂

Hemoglobin - protein in RBC that carries oxygen

Globin: **Heme:**

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

Oxyhemoglobin - ruby red - O₂ loading in lungs

deoxyhemoglobin - dark red - O₂ unloading in tissues

Carbaminohemoglobin - 20% CO₂ in blood binds to Hb

- heme iron (Fe) binds to 1 O₂
- RBC - 250mil Hb molecules
- Each Hb can produce 4 O₂

Hematopoiesis

- formation of blood cells in red bone marrow

hemocytoblasts - hematopoietic Stem Cells

hematocrit - % of blood volume that is in RBCs

47% ± 5% (males), 42% ± 5% (females)

Anatomy And Physiology Blood Chapter

CH Cherryholmes



Anatomy And Physiology Blood Chapter:

Unveiling the Magic of Words: A Overview of "**Anatomy And Physiology Blood Chapter**"

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Table of Contents Anatomy And Physiology Blood Chapter

1. Understanding the eBook Anatomy And Physiology Blood Chapter
 - The Rise of Digital Reading Anatomy And Physiology Blood Chapter
 - Advantages of eBooks Over Traditional Books
2. Identifying Anatomy And Physiology Blood Chapter
 - 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 Blood Chapter
 - User-Friendly Interface
4. Exploring eBook Recommendations from Anatomy And Physiology Blood Chapter
 - Personalized Recommendations
 - Anatomy And Physiology Blood Chapter User Reviews and Ratings

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