

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

Carbamino hemoglobin - 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

47% $\pm$ 5% (males), 42% $\pm$ 5% (females)

Anatomy And Physiology Chapter 10 Blood Notes

J Rink



Anatomy And Physiology Chapter 10 Blood Notes:

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McConnell, Kerry L. Hull, 2020-03-27 Human Form Human Function is the first essentials level text that seamlessly weaves together form anatomy with function physiology an approach that caters to how instructors teach and students learn Authors Tom McConnell and Kerry Hull incorporate real life case studies as the vehicle for learning how form and function are linked Through careful organization thoughtful presentation and a conversational narrative the authors have maintained a sharp focus on communication between body organs and body systems between artwork and student learning between content and student comprehension Each feature reinforces critical thinking and connects anatomy and physiology to the world of health care practice This original text offers an exceptional student learning experience an accessible and casual narrative style dynamic artwork and a complete suite of ancillaries help build a solid foundation and spark students enthusiasm for learning the human body

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Table of Contents Anatomy And Physiology Chapter 10 Blood Notes

1. Understanding the eBook Anatomy And Physiology Chapter 10 Blood Notes
 - The Rise of Digital Reading Anatomy And Physiology Chapter 10 Blood Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying Anatomy And Physiology Chapter 10 Blood Notes
 - 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 Chapter 10 Blood Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Anatomy And Physiology Chapter 10 Blood Notes
 - Personalized Recommendations
 - Anatomy And Physiology Chapter 10 Blood Notes User Reviews and Ratings
 - Anatomy And Physiology Chapter 10 Blood Notes and Bestseller Lists

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