

# Chapter 17 Blood

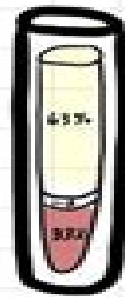
## Blood Content:

**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

**Carbaminothemsoglobin** - 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

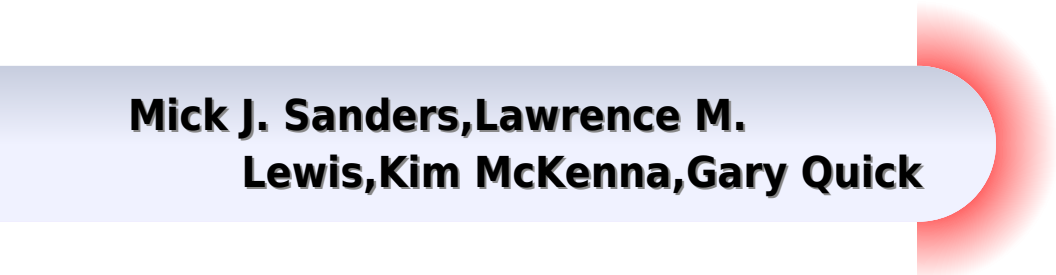
hemocytoblasts - hematopoietic Stem Cells

hematocrit - % of blood volume that is in RBCs

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

# Anatomy And Physiology Chapter 10 Blood Notes

**Mick J. Sanders, Lawrence M.  
Lewis, Kim McKenna, Gary Quick**



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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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