

# 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 O<sub>2</sub> - scarlet, low O<sub>2</sub> - dark red    V = 5-6L men, 4-5L women

## Blood function:

1. **Distribution** - delivering O<sub>2</sub> 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 O<sub>2</sub>

**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 - O<sub>2</sub> loading in lungs

deoxyhemoglobin - dark red - O<sub>2</sub> unloading in tissues

Carbaminohemoglobin - 20% CO<sub>2</sub> in blood binds to Hb

- heme iron (Fe) binds to 1 O<sub>2</sub>
- RBC - 250mil Hb molecules
- Each Hb can produce 4 O<sub>2</sub>

## 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)

# Chapter 1study Guide Blood

**S Nieto**



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## **Table of Contents Chapter 1study Guide Blood**

1. Understanding the eBook Chapter 1study Guide Blood
  - The Rise of Digital Reading Chapter 1study Guide Blood
  - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 1study 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 Chapter 1study Guide Blood
  - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 1study Guide Blood
  - Personalized Recommendations
  - Chapter 1study Guide Blood User Reviews and Ratings
  - Chapter 1study Guide Blood and Bestseller Lists
5. Accessing Chapter 1study Guide Blood Free and Paid eBooks
  - Chapter 1study Guide Blood Public Domain eBooks
  - Chapter 1study Guide Blood eBook Subscription Services
  - Chapter 1study Guide Blood Budget-Friendly Options

6. Navigating Chapter 1study Guide Blood eBook Formats
  - ePub, PDF, MOBI, and More
  - Chapter 1study Guide Blood Compatibility with Devices
  - Chapter 1study Guide Blood Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Chapter 1study Guide Blood
  - Highlighting and Note-Taking Chapter 1study Guide Blood
  - Interactive Elements Chapter 1study Guide Blood
8. Staying Engaged with Chapter 1study Guide Blood
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Chapter 1study Guide Blood
9. Balancing eBooks and Physical Books Chapter 1study Guide Blood
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Chapter 1study Guide Blood
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Chapter 1study Guide Blood
  - Setting Reading Goals Chapter 1study Guide Blood
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chapter 1study Guide Blood
  - Fact-Checking eBook Content of Chapter 1study 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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