

# 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

49% ± 5% (males), 42% ± 5% (females)

# Anatomy And Physiology Chapter Blood Notes

**Xiaolong Qi**



**Anatomy And Physiology Chapter Blood Notes:**

## The Enigmatic Realm of **Anatomy And Physiology Chapter Blood Notes**: 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 short of extraordinary. Within the captivating pages of **Anatomy And Physiology Chapter Blood Notes** a literary masterpiece penned by a renowned author, readers embark on 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 affect the hearts and minds of those that partake in its reading experience.

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### **Table of Contents Anatomy And Physiology Chapter Blood Notes**

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

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