

# T H E C I R C U L A T O R Y S Y S T E M



## Parts of the Heart

- **Superior & Inferior Vena Cava:** Major veins of the body that return deoxygenated blood to the right atrium.
- **Right Atria:** Receiving chamber at the top of the heart receiving deoxygenated blood from the body.
- **Left Atria:** Receiving chamber at the top of the heart receiving oxygenated blood from the body.
- **Ventricles:** Thick muscular chambers of the heart located below each atria.
  - **Right:** Pumps blood to the lungs
  - **Left:** Pumps blood to the body
- **Pulmonary Artery:** The major artery carrying deoxygenated blood from the right ventricle to the lungs.
- **Pulmonary Vein:** The major vein carrying oxygenated blood from the lungs to the left ventricle.
- **Aorta:** The major artery carrying oxygenated blood from the left ventricle to the body.
- **Septum:** The muscular wall that separates the left and right sides of the heart.

## Functions

- Delivers needed materials to cells
- Removes waste from cells
- Regulates body temperature
- Fights infections

## Components

- Heart
- Blood Vessels: arteries, capillaries, veins

## Blood Vessels

- **Artery:** Brings blood away from the heart.
  - Thickest
  - Withstands the most pressure
- **Vein:** Brings blood toward the heart.
  - Has valves to prevent blood from backing up.
- **Capillary:** Connect arteries to veins and allow gas exchange.
  - Thinnest
  - Lets materials pass through

## Components of the Blood

Component	Function	Where is it made
Plasma	Liquid part	Water
Platelet	Stop bleeding	Bone marrow
Red Blood Cells	Carry Oxygen	Bone marrow
White Blood Cells	Protection	Bone marrow

# Circulatory System Study Notes

**State University of Iowa**



## **Circulatory System Study Notes:**

Circulatory System Study Notes: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Circulatory System Study Notes : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Circulatory System Study Notes : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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## Table of Contents Circulatory System Study Notes

1. Understanding the eBook Circulatory System Study Notes
  - The Rise of Digital Reading Circulatory System Study Notes
  - Advantages of eBooks Over Traditional Books
2. Identifying Circulatory System Study 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 Circulatory System Study Notes
  - User-Friendly Interface
4. Exploring eBook Recommendations from Circulatory System Study Notes
  - Personalized Recommendations
  - Circulatory System Study Notes User Reviews and Ratings
  - Circulatory System Study Notes and Bestseller Lists
5. Accessing Circulatory System Study Notes Free and Paid eBooks
  - Circulatory System Study Notes Public Domain eBooks
  - Circulatory System Study Notes eBook Subscription Services
  - Circulatory System Study Notes Budget-Friendly Options
6. Navigating Circulatory System Study Notes eBook Formats
  - ePub, PDF, MOBI, and More
  - Circulatory System Study Notes Compatibility with Devices
  - Circulatory System Study Notes Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Circulatory System Study Notes
  - Highlighting and Note-Taking Circulatory System Study Notes
  - Interactive Elements Circulatory System Study Notes
8. Staying Engaged with Circulatory System Study Notes

- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Circulatory System Study Notes
9. Balancing eBooks and Physical Books Circulatory System Study Notes
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Circulatory System Study Notes
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Circulatory System Study Notes
- Setting Reading Goals Circulatory System Study Notes
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Circulatory System Study Notes
- Fact-Checking eBook Content of Circulatory System Study 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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