

Anatomy and Physiology Cardiovascular System

A closed system of the heart and blood vessels

- The heart pumps blood
- Blood vessels allow blood to circulate to all parts of the body

Functions of the cardiovascular system

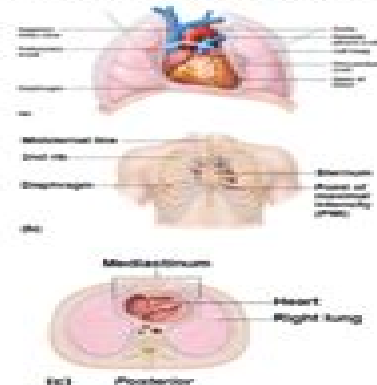
- Transport oxygen, nutrients, cell wastes, hormones to and from cells

Anatomy of the Heart

- Size of a human fist, weighing less than a pound
- Located in the thoracic cavity, between the lungs in the inferior mediastinum

Orientation

- Apex is directed toward left hip and rests on the diaphragm
- Base points toward right shoulder



Coverings of the heart

- **Pericardium**—a double-walled sac
 - o Fibrous pericardium is loose and superficial

- o Serous membrane is deep to the fibrous pericardium and composed of two layers
 - **Parietal pericardium:** outside layer that lines the inner surface of the fibrous pericardium
 - **Visceral pericardium:** next to heart; also known as the *epicardium*
- o Serous fluid fills the space between the layers of pericardium, called the *pericardial cavity*



Walls of the Heart

- **Epicardium**
 - o Outside layer; the visceral pericardium
- **Myocardium**
 - o Middle layer
 - o Mostly cardiac muscle
- **Endocardium**
 - o Inner layer known as *endothelium*

Four Chambers of the Heart

- **Atria (right and left)**
 - o Receiving chambers
 - o Assist with filling the ventricles
 - o Blood enters under low pressure
- **Ventricles (right and left)**
 - o Discharging chambers
 - o Thick-walled pumps of the heart
 - o During contraction, blood is propelled into circulation

Anatomy And Physiology Chapter 11

Zhe Xu



Anatomy And Physiology Chapter 11:

The Top Books of the Year Anatomy And Physiology Chapter 11 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 top-selling books, exploring the fascinating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating 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. Anatomy And Physiology Chapter 11 : 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 spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling 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 captivating 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 speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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