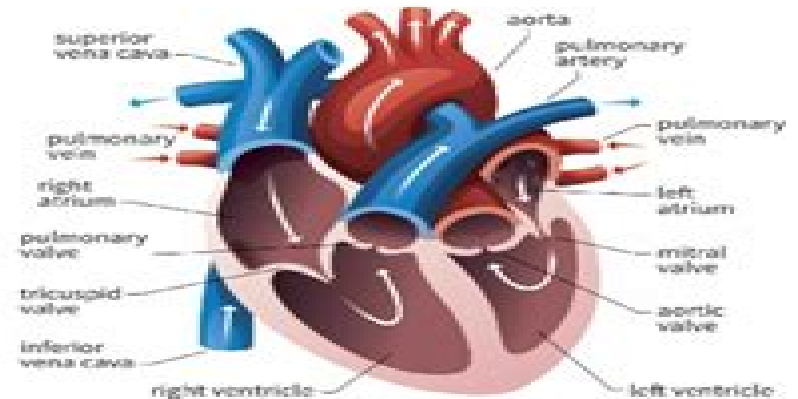


# BLOOD AND CIRCULATORY SYSTEM

## The HEART ♥

- Blue, "right side" - blood high in CO<sub>2</sub>
- Red, "left side" - blood high in O<sub>2</sub>
- 1. **Right atrium** receives blood from body through vena cava
- 2. Goes through tricuspid valve into right ventricle
- 3. Then goes through pulmonary valve and get sent off to lungs to get oxygenated
- 4. Oxygenated blood comes through pulmonary veins into left atrium
- 5. Goes through mitral valve into left ventricle
- 6. Pumped through aortic valve through aorta and distributed to the rest of the body
- 7. Blood travels through arteries, O<sub>2</sub>
- 8. Arteries branch and get smaller and thinner capillaries to deliver O<sub>2</sub> and nutrients to every cell
- 9. Capillaries do a U-turn and start getting larger
- 10. Blood travels back to the heart in veins



- "Lub Dub" = "Lub", Tricuspid & Mitral valves slamming shut "Dub", Pulmonary & Aortic valves slamming shut as blood leaves the heart.

## 4 Valves of the Heart

1. Tricuspid - r Atrium to r Ventricle
2. Pulmonary - r Ventricle to lungs
3. Mitral - l Atrium to l Ventricle
4. Aortic - l Ventricle to rest of the body

## 3 Layers of the Heart

1. **Endocardium**: INSIDE, "skin" that lines inside of heart to prevent leakage
2. **Myocardium**: THICK, muscle layer
3. **Pericardium**: Membrane sac around the heart, protects from infection

## 3 Main structures that control heart rate:

1. **Medulla Oblongata** (the brain) sends impulses down the vagus nerve
2. Nerve impulses go to **SA node** on the upper right atrium.
3. SA node makes Atria contract.
4. Impulses go to **AV node** on lower right atrium and ventricles contract
5. (Purkinje Fibers: nerve that causes the contraction of the Ventricles)

- **Coronary Arteries**: feeds the heart O<sub>2</sub> and nutrients, wraps around heart  
- **Atherosclerosis**: If clogged, that area of the heart can't contract - "heart attack"  
Treatments: Lifestyle changes, medication, stent insertion

## Pulmonary Circulation

- Carries deoxygenated blood away from R ventricle, to lungs, and returns O<sub>2</sub> blood to the left atrium & ventricle

vs.

## Systemic Circulation

- carries oxygenated blood from the left ventricle, through the arteries, to the capillaries in the tissues of the body

# Blood And Circulatory System Study Guide Key

**Jane B. Taylor, John D. Jackson**



**Blood And Circulatory System Study Guide Key:**

The book delves into Blood And Circulatory System Study Guide Key. Blood And Circulatory System Study Guide Key is a vital topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Blood And Circulatory System Study Guide Key, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Blood And Circulatory System Study Guide Key
    - Chapter 2: Essential Elements of Blood And Circulatory System Study Guide Key
    - Chapter 3: Blood And Circulatory System Study Guide Key in Everyday Life
    - Chapter 4: Blood And Circulatory System Study Guide Key in Specific Contexts
    - Chapter 5: Conclusion
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  3. In chapter 2, this book will delve into the foundational concepts of Blood And Circulatory System Study Guide Key. This chapter will elucidate the essential principles that need to be understood to grasp Blood And Circulatory System Study Guide Key in its entirety.
  4. In chapter 3, this book will examine the practical applications of Blood And Circulatory System Study Guide Key in daily life. The third chapter will showcase real-world examples of how Blood And Circulatory System Study Guide Key can be effectively utilized in everyday scenarios.
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  6. In chapter 5, this book will draw a conclusion about Blood And Circulatory System Study Guide Key. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Blood And Circulatory System Study Guide Key.

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