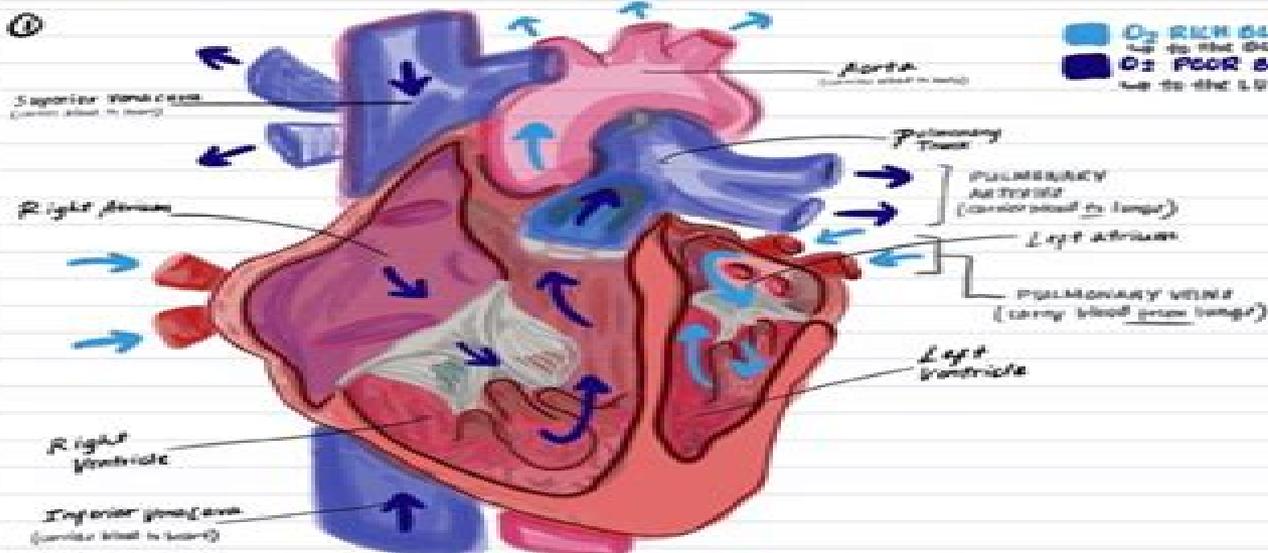


MODULE 6: CARDIOVASCULAR ANATOMY & PHYSIOLOGY

O₂ RICH BLOOD
 ↳ to the BODY
O₂ POOR BLOOD
 ↳ to the LUNGS



② PULMONARY CIRCUIT

- moves blood FROM the ♡ to the LUNGS BACK to the ♡

SYSTEMATIC CIRCUIT

- moves blood FROM the ♡ to ALL body parts and BACK to the ♡.

③ ARTERIES

> carry blood AWAY from the ♡

VEINS

> carry blood BACK to the ♡

④ CAPILLARIES

> where GAS EXCHANGE occurs
 ↳ especially @ the ALVEOLI, wrapped in tiny blood vessels called

⑤ Cardiac cells, like all other cells in the body, require oxygen to survive and function properly. The heart itself, however, does not extract oxygen from the blood that it pumps. Instead, the coronary arteries, which are small blood vessels that wrap around the outside of the heart, supply the heart muscle (myocardium) with the oxygen-rich blood it needs to function.

- ↳ The circulatory system (cardiovascular system) pumps blood from the heart to the lungs to get oxygen.
- ↳ Then, the heart sends oxygenated blood to the rest of the body (cardiac cells)

- **AORTA** - largest artery
- **VENA CAVA** - largest vein

PATHWAYS:

AORTA → ARTERIES → ARTERIOLES → CAPILLARIES → VENULES → VEINS → SUPERIOR & INFERIOR VENA CAVA

⑥ THE PROCESS THROUGH WHICH CELLS BREAK DOWN ORGANIC MOLECULES, TYPICALLY GLUCOSE, TO PRODUCE ENERGY IN THE FORM OF PHOSPHORYLATED ADENOSINE TRIPHOSPHATE (ATP), ESSENTIAL FOR THE BASIC FUNCTIONS OF CELLS, AND OVERALL, THE ORGANISM.
 ↳ **Steps:** glycolysis, citric acid cycle (KREBS CYCLE), and oxidative phosphorylation (ELECTRON TRANSPORT CHAIN)

① IDENTIFY THE FOLLOWING STRUCTURE FROM A FIGURE OF THE HEART:

- LEFT & RIGHT ATRIUM
- LEFT & RIGHT VENTRICLE
- PULMONARY TRUNK
- THE AORTA
- SUPERIOR VENA CAVA

⑦ NAME THE TWO CIRCUITS OF THE CARDIOVASCULAR SYSTEM

↳ how do they differ?

TYPES OF BLOOD VESSELS

⑧ TYPES OF BLOOD VESSELS THAT BLOOD TRAVEL THROUGH AFTER LEAVING HEART.

⑨ AT WHICH TYPE OF BLOOD VESSELS DOES GAS EXCHANGE OCCUR?

⑩ THE CARDIOVASCULAR SYSTEM DELIVERS OXYGEN-RICH BLOOD TO THE TRILLIONS OF CELLS IN YOUR BODY. HOW DO THE CARDIAC CELLS OF YOUR HEART GET THE OXYGEN THEY NEED TO STAY ALIVE?

⑪ Pathway of blood (starting from largest artery) **AORTA & VENA CAVA**

⑫ what is CELLULAR RESPIRATION and what is it for?

SUMMARY: Identifying the parts of the human heart and understanding the pathways and circuits involved necessary to its functions: transportation, gas exchange, nutrient delivery, waste removal, regulation. The importance of cellular respiration that ensures all cells to receive the necessary oxygen & nutrients, and that waste products are also removed.

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Table of Contents Lecture Notes Cardiology Pdfslibforme

1. Understanding the eBook Lecture Notes Cardiology Pdfslibforme
 - The Rise of Digital Reading Lecture Notes Cardiology Pdfslibforme
 - Advantages of eBooks Over Traditional Books
2. Identifying Lecture Notes Cardiology Pdfslibforme
 - 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 Lecture Notes Cardiology Pdfslibforme
 - User-Friendly Interface
4. Exploring eBook Recommendations from Lecture Notes Cardiology Pdfslibforme

- Personalized Recommendations
 - Lecture Notes Cardiology Pdfslibforme User Reviews and Ratings
 - Lecture Notes Cardiology Pdfslibforme and Bestseller Lists
5. Accessing Lecture Notes Cardiology Pdfslibforme Free and Paid eBooks
 - Lecture Notes Cardiology Pdfslibforme Public Domain eBooks
 - Lecture Notes Cardiology Pdfslibforme eBook Subscription Services
 - Lecture Notes Cardiology Pdfslibforme Budget-Friendly Options
 6. Navigating Lecture Notes Cardiology Pdfslibforme eBook Formats
 - ePub, PDF, MOBI, and More
 - Lecture Notes Cardiology Pdfslibforme Compatibility with Devices
 - Lecture Notes Cardiology Pdfslibforme Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Lecture Notes Cardiology Pdfslibforme
 - Highlighting and Note-Taking Lecture Notes Cardiology Pdfslibforme
 - Interactive Elements Lecture Notes Cardiology Pdfslibforme
 8. Staying Engaged with Lecture Notes Cardiology Pdfslibforme
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Lecture Notes Cardiology Pdfslibforme
 9. Balancing eBooks and Physical Books Lecture Notes Cardiology Pdfslibforme
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Lecture Notes Cardiology Pdfslibforme
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Lecture Notes Cardiology Pdfslibforme
 - Setting Reading Goals Lecture Notes Cardiology Pdfslibforme
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Lecture Notes Cardiology Pdfslibforme

- Fact-Checking eBook Content of Lecture Notes Cardiology Pdfslibforme
 - 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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