

# CARDIOVASCULAR SYSTEM : ANATOMY & PHYSIOLOGY

## FUNCTION OF CIRCULATION:

Delivers O<sub>2</sub>, nutrients, hormones and antibodies to organs, tissues and cells. Removes the end product of cellular metabolism.

## FUNCTION OF THE HEART

Pumps oxygenated blood into the arterial system to supply capillaries and tissue.  
Pumps oxygen poor blood from the venous system through the lungs to be reoxygenated.

## ANATOMY OF THE HEART

Cone shaped organ located in the mediastinal space.  
The pericardial sac encases the heart and protects it, lubricates and holds 5-20 ml of pericardial fluid. This has two layers.

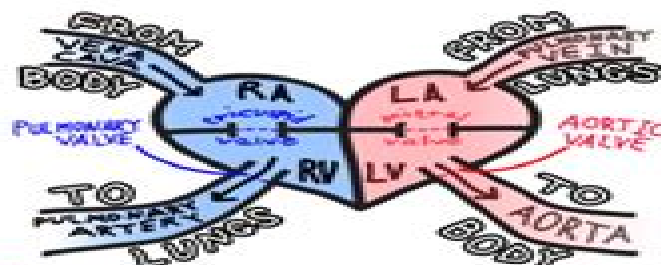
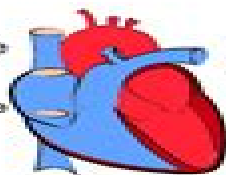
- ❖ the parietal pericardium which is the outer membrane.
- ❖ the visceral pericardium is the inner membrane attached to the heart.

## CONSISTS OF 3 LAYERS

- ❖ **Epicardium** : outermost layer of the heart.
- ❖ **Myocardium**: middle layer of the heart, the contracting muscle.
- ❖ **Endocardium**: innermost layer of the heart, lines the inner chambers and the valves.

## 4 CHAMBERS

- ❖ **Right atrium**: carries deoxygenated blood from the body via superior and inferior vena cava.
- ❖ **Right ventricle**: carries blood from the right atrium and pumps it into the lungs through the pulmonary artery.
- ❖ **Left atrium**: carries oxygenated blood from the pulmonary veins.
- ❖ **Left ventricle**: carries oxygenated blood from the left atrium and pumps it into the systemic circuit through the aorta.



## 4 VALVES

Two atrioventricular valves that close at the beginning of ventricular contraction. They prevent blood from flowing back into the atria.

- ❖ **Tricuspid valve** : on the right side of the heart.
- ❖ **Bicuspid valve**: on the left side of the heart.

Two semilunar valves that prevent blood from flowing back into the ventricles during relaxation.

- ❖ **Pulmonic semilunar valve**: between the right ventricle and pulmonary artery.
- ❖ **Aortic semilunar valve**: between the ventricle and the aorta.

## CORONARY ARTERIES

- ❖ **Right main coronary artery**: supplies the right atrium and ventricle, the inferior left ventricle, posterior septal wall, SA and AV nodes.
- ❖ **Left main coronary artery**: consists of two main branches left anterior descending which supplies blood to the left ventricle and the ventricular septum and circumflex arteries which supply blood to the left atrium and the lateral/posterior aspects of the left ventricle.

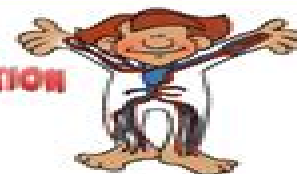
## BLOOD FLOW OF THE HEART

1. From the superior and inferior vena cava, oxygen poor blood goes to the right atria through the tricuspid valve.
2. Right ventricle to the pulmonary valve.
3. To the pulmonary trunk and arteries into the lungs. CO<sub>2</sub> is lost and O<sub>2</sub> is gained in the pulmonary capillaries.
4. O<sub>2</sub> rich blood enters the pulmonary veins to the left atrium.
5. Blood travels through the bicuspid valve and enters the left ventricle.
6. Blood moves through the aortic valve and travels through the aorta to the systemic circuit.

## ELECTRICAL CONDUCTION:

- ❖ **SA node**: pacemaker of the heart and initiates contraction at 60- 100 BPM.
- ❖ **AV** : receives impulses from the SA node initiates and sustains impulses at 40-60 BPM.
- ❖ **Bundle of His**: continuation of the AV node and branches into the bundle branches which terminate in the purkinje fibers.
- ❖ **Purkinje fibers**: network of conducting strands beneath the ventricular endocardium. They can act as a pacemaker when the SA and AV fail as pace makers. They can sustain at 20-40 BPM.

CIRCULATION



# Heart And Circulation Study Guide Answers

**Yi-Tong Ma**



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## **Table of Contents Heart And Circulation Study Guide Answers**

1. Understanding the eBook Heart And Circulation Study Guide Answers
  - The Rise of Digital Reading Heart And Circulation Study Guide Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Heart And Circulation Study Guide Answers
  - 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 Heart And Circulation Study Guide Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Heart And Circulation Study Guide Answers
  - Personalized Recommendations
  - Heart And Circulation Study Guide Answers User Reviews and Ratings
  - Heart And Circulation Study Guide Answers and Bestseller Lists
5. Accessing Heart And Circulation Study Guide Answers Free and Paid eBooks

- Heart And Circulation Study Guide Answers Public Domain eBooks
  - Heart And Circulation Study Guide Answers eBook Subscription Services
  - Heart And Circulation Study Guide Answers Budget-Friendly Options
6. Navigating Heart And Circulation Study Guide Answers eBook Formats
- ePub, PDF, MOBI, and More
  - Heart And Circulation Study Guide Answers Compatibility with Devices
  - Heart And Circulation Study Guide Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Heart And Circulation Study Guide Answers
  - Highlighting and Note-Taking Heart And Circulation Study Guide Answers
  - Interactive Elements Heart And Circulation Study Guide Answers
8. Staying Engaged with Heart And Circulation Study Guide Answers
- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Heart And Circulation Study Guide Answers
9. Balancing eBooks and Physical Books Heart And Circulation Study Guide Answers
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Heart And Circulation Study Guide Answers
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Heart And Circulation Study Guide Answers
- Setting Reading Goals Heart And Circulation Study Guide Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Heart And Circulation Study Guide Answers
- Fact-Checking eBook Content of Heart And Circulation Study Guide Answers
  - 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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