

# 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

- From the superior and inferior vena cava oxygen poor blood goes to the
- Right atria through the tricuspid valve
- Right ventricle to the pulmonary valve
- 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
- O<sub>2</sub> rich blood enters the pulmonary veins to the left atrium
- Blood travels through the bicuspid valve and enters the left ventricle
- Blood moves through the aortic valve and travels through the aorta to the systemic circuit



Sectional Anatomy of the Heart

## ELECTRICAL CONDUCTION

- SA node: pacemaker of the heart and initiates contraction at 80- 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 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

# Cardiovascular System Study Guide Answer Wccc

**Achilles J. Pappano, Withrow Gil Wier**



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*Billboard*, 1952-10-04 In its 114th year Billboard remains the world's premier weekly music publication and a diverse digital events brand content and data licensing platform Billboard publishes the most trusted charts and offers unrivaled reporting about the latest music video gaming media digital and mobile entertainment issues and trends *Library Journal* Melvil Dewey, Richard Rogers Bowker, Charles Ammi Cutter, Bertine Emma Weston, Karl Brown, Helen E. Wessells, 1972 Includes beginning Sept 15 1954 and on the 15th of each month Sept May a special section School library journal ISSN 0000 0035 called Junior libraries 1954 May 1961 Also issued separately *Billboard Music Week*, 1971-07 **Yearbook of International Organizations 2014-2015 (Volume 2)** Union Of International Associations, Union of International Associations, 2014-07-16 The Yearbook of International Organizations provides the most extensive coverage of non profit international organizations currently available Detailed profiles of international non governmental and intergovernmental organizations IGO collected and documented by the Union of International Associations can be found here In addition to the history aims and activities of international organizations with their events publications and contact details the volumes of the Yearbook include networks between associations biographies of key people involved and extensive statistical data Volume 2 allows users to locate organizations by the country in which secretariats or members are located *Human Physiology Fast Facts: The Cardiovascular System in Humans* E Staff, Learn and review on the go Use Quick Review Anatomy Physiology Study Notes to help you learn or brush up on the subject quickly You can use the review notes as a reference to understand the subject better and improve your grades Easy to remember facts to help you perform better Perfect study notes for all health sciences premed medical and nursing students **CARDIOVASCULAR SYSTEM** NARAYAN CHANGDER, 2024-03-30 Note Anyone can request the PDF version of this practice set workbook by emailing me at cbsenet4u gmail com You can also get full PDF books in quiz format on our youtube channel <https://www.youtube.com/smartquiziz> I will send you a PDF version of this workbook This book has been designed for candidates preparing for various competitive examinations It contains many objective questions specifically designed for different exams Answer keys are provided at the end of each page It will undoubtedly serve as the best preparation material for aspirants This book is an engaging quiz eBook for all and offers something for everyone This book will satisfy the curiosity of most students while also challenging their trivia skills and introducing them to new information Use this invaluable book to test your subject matter expertise Multiple choice exams are a common assessment method that all prospective candidates must be familiar with in today's academic environment Although the majority of students are accustomed to this MCQ format many are not well versed in it To achieve success in MCQ tests quizzes and trivia challenges one requires test taking techniques and skills in addition to subject knowledge It also provides you with the skills and information you need to achieve a good score in challenging tests or competitive examinations Whether you have studied the subject on your own read for pleasure or completed coursework it will assess

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Cardiovascular System Toby Fagan,Romeshan Sunthareswaran,2002 This book presents the essential information about the cardiovascular system Written by students for students it covers both clinical and basic science content focusing on those areas that the student authors consider crucial to review Plus an estee *Cardiovascular System Anatomy* Samira BELAIFA,2017-10-15 The heart is the organ that helps supply blood and oxygen to all parts of the body It is divided by a partition or septum into two halves and the halves are in turn divided into four chambers The heart is situated within the chest cavity and surrounded by a fluid filled sac called the pericardium The heart and the circulatory system together form the cardiovascular system This book is intended to medical students It contains pedagogical diagrams of cardiovascular system Cardiovascular System Dr. Paul Sutton,Toby Fagan,2007 Part of the best selling Crash Course series this book focuses on the essential information students really need to know about the cardiovascular system Comprehensive yet concise it is more than just an exam crammer Each component is considered in an integrated format putting the basic sciences in clinical context Highly illustrated with clear accessible text it uses features such as hints and tips and clinical sketches to make the content easy to absorb and remember An extensive self assessment section allows the reader to test their knowledge and identify areas needing further study Written by students for students under faculty supervision this new

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This book will interest students health science learners and those studying anatomy and physiology who want to understand the cardiovascular system its functions and related disorders **Cardiovascular Physiology, 11e: South Asia Edition** Achilles J. Pappano, Withrow Gil Wier, 2019-08-30 Gain a foundational understanding of cardiovascular physiology and how the cardiovascular system functions in health and disease Cardiovascular Physiology a volume in the Mosby Physiology Series explains the fundamentals of this complex subject in a clear and concise manner while helping you bridge the gap between normal function and disease with pathophysiology content throughout the book Helps you easily master the material in a systems based curriculum with learning objectives Clinical Concept boxes highlighted key words and concepts chapter summaries self study questions and a comprehensive exam to help prepare for USMLEs Keeps you current with the latest concepts in vascular molecular and cellular biology as they apply to cardiovascular function thanks to molecular commentaries in each chapter Includes clear 2 color diagrams that simplify complex concepts Features clinical commentaries that show you how to apply what you ve learned to real life clinical situations Complete the Mosby Physiology Series Systems based and portable these titles are ideal for integrated programs Blaustein Kao Matteson Cellular Physiology and Neurophysiology Cloutier Respiratory Physiology Koeppen Stanton Renal Physiology Johnson Gastrointestinal Physiology White Harrison Mehlmann Endocrine and Reproductive Physiology Hudnall Hematology A Pathophysiologic Approach

**Cardiovascular Physiology, Seventh Edition** David E. Mohrman, Lois Jane Heller, 2010-08-06 The study guide that helps you to truly understand rather than merely memorize the essential principles of cardiovascular medicine The goal of this unique review is to give you a working understanding of the key concepts of cardiovascular physiology Concise but thorough Cardiovascular Physiology focuses on the facts you need to get a solid big picture overview of how the cardiovascular system operates under normal and abnormal situations There is no faster or more effective way to learn how the key principles of cardiovascular function apply to common physiological and pathological challenges than this engagingly written guide Features Clarifies the details of physiologic mechanisms and their role in pathologic states Links cardiovascular physiology to diagnosis and treatment Summarizes key concepts at the end of each chapter Highlights must know information with chapter objectives Provides the perfect quick review for the USMLE Step 1 Reinforces learning with study questions at the end of each chapter Keeps you up to date on the latest research and developments in this ever changing field The content you need to gain a thorough understanding of this essential subject Overview of the Cardiovascular System Characteristics of Cardiac Muscle Cells The Heart Pump Measurement of Cardiac Function Cardiac Abnormalities The Peripheral Vascular System Vascular Control Central Venous Pressure An Indicator of Circulatory Hemodynamics Regulation of Arterial Pressure Cardiovascular Response to Physiological Stresses Cardiovascular Function in Pathological Situations

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


































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