

CARDIOVASCULAR SYSTEM : ANATOMY & PHYSIOLOGY

FUNCTION OF CIRCULATION

Delivers O₂, 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 Co₂ is lost and O₂ is gained in the pulmonary capillaries
- O₂ 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 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 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

Heart Study Guide Answers

**Paul Anthony Samuelson, George B.
Baldwin**

Heart Study Guide Answers:

Instructor's Manual and Study Guide Answers for the Human Body in Health and Disease Barbara Janson Cohen, Memmler, 1996 Jill Herzog, 2012 Rev ed of Appleton Lange review for the ultrasonography examination edited by Carol A Krebs Charles S Odwin Arthur C Fleischer c2004 **Student Study Guide** Liebaert, 2002-08 by Richard Liebaert Linn Benton Community College Students can master key concepts and earn a better grade with the thought provoking exercises found in this study guide A wide range of questions and activities help students test their understanding of biology The Student Study Guide also includes references to student media activities on the Campbell Biology CD ROM and Web Site

Study Guide and Workbook to Accompany Samuelson Paul Anthony Samuelson, Romney Robinson, 1961 *Study Guide and Workbook* Paul Anthony Samuelson, George B. Baldwin, 1958 Hearings, Reports and Prints of the Senate Select Committee on Nutrition and Human Needs United States. Congress. Senate. Select Committee on Nutrition and Human Needs, 1977 Study Guide for Crooks and Baur's Our Sexuality, Sixth Edition Lauren Kuhn, Robert Crooks, 1995 A previous edition of this textbook was cited in Books for College Libraries 3d ed Intended for undergraduate college courses it covers the biological psychosocial behavioral and cultural aspects of human sexuality deliberately emphasizing diversity presenting information from a range of perspectives and sticking to a non judgmental approach Coverage includes the biological basis of sexuality sexual behavior the life cycle sexual problems and social issues The new edition contains updated references and material and some enhanced pedagogical features such as How About You questions and more prominent display of critical thinking questions Crooks is a psychologist who has taught human sexuality classes at the university level for many years Baur is a social worker with a specialty in sex therapy and education c Book News Inc Study Guide to Accompany Human Physiology Kevin T. Patton, Victoria Schauf, 1989-12 CURRENT Medical Diagnosis and Treatment Study Guide Gene Quinn, Nathaniel Gleason, Maxine A. Papadakis, Stephen J. McPhee, 2013-08-22 Case based coverage of 80 must know diseases and disorders Add the expertise of CURRENT Medical Diagnosis Treatment to your exam review For more than 70 years professors students and clinicians have trusted LANGE for high quality current concise medical information in a convenient affordable portable format Whether for coursework clerkships USMLE prep specialty board review or patient care there s a LANGE book that guarantees success Derived from CURRENT Medical Diagnosis Treatment the world s most popular annual medical book this unique study guide delivers case analysis of 80 of the most common topics in internal medicine It provides a comprehensive and well organized synopsis of each topic making it an essential study partner for a variety of examinations including the USMLE Step 2 medicine clerkship shelf exams ABIM internal medicine boards and recertification exams adult and family nurse practitioner certification examination and physician assistant national certifying exam For practitioners this quick reference covers patient care for 80 of the clinical problems they are most likely to encounter in daily practice Each topic covered in CURRENT Medical Diagnosis Treatment Study Guide is presented in a consistent easy to read in depth

manner that emphasizes problem solving The topics were carefully selected based on their importance to the field of internal medicine and are designed to enhance your ability to think through a typical case in a logical step by step fashion Each topic includes a typical patient presentation and Learning Objectives Salient Features Symptoms and Signs Differential Diagnosis Laboratory Radiology and Procedural Findings Treatment Outcomes When to Refer and When to Admit PubMed references to the most current and pertinent MEDLINE articles There is no easier or faster way to sharpen your understanding of key concepts in clinical reasoning and problem solving and to brush up on essential clinical facts than this one of a kind case based review CASE BASED COVERAGE THAT SPANS THE FULL SPECTRUM OF INTERNAL MEDICINE Skin Disorders Pulmonary Ear Nose and Throat Disorders Heart Hypertension Lipid Disorders Hematologic Disorders Gastrointestinal Liver Pancreas Disorders Gynecologic Urologic Disorders Musculoskeletal Disorders Kidney Electrolyte Disorders Nervous System Psychiatric Disorders Endocrine Metabolic Disorders Infectious Disorders

ACLS Study Guide Barbara Aehlert, 2007

Written in a conversational style the 3rd edition of the ACLS Study Guide features unique user friendly and easy to remember treatment algorithms totally revised to reflect the 2005 emergency cardiac care guidelines Full color throughout it offers a complete concise overview of advanced cardiovascular life support ACLS acute coronary syndromes and acute stroke It also features easy to access information with Stop and Review quizzes in each chapter and a comprehensive pretest and posttest New to this edition are a handy ACLS quick reference fold out card a heart rate ruler and more In addition to being an outstanding study tool the ACLS Study Guide 3rd Edition is the official text for the American Safety and Health Institute ACLS certification course For more information on ASHI courses call 800 246 5101 or visit www.ashinstitute.com A pretest and posttest each containing 50 questions with answers and rationales provide readers with opportunities to check comprehension prior to and after study Chapter Objectives allow readers to preview the main points in each chapter Quick Review boxes throughout the chapters and Stop and Review sections at the end of the chapters test reader comprehension of the material Chapters 1 8 comprise a Preparatory section to provide the foundation for the case presentations in the second section Ten case studies present real life clinical situations enabling the reader to make decisions based on information in the Preparatory section Consistent organization of case studies include Objective Skills to Master Rhythms to Master Medications to Master Related Text Chapters Questions Answers Essential Actions and Unacceptable Actions to aide in the study and mastery of material Unique treatment algorithms totally revised to reflect the 2005 emergency cardiac care guidelines simplify the new treatment guidelines making them easier to use and remember Chapter on Stroke has now been expanded to include Special Resuscitation Situations ACLS Pearl boxes contain key points and useful tips for clinical practice Keeping it Simple boxes contain essential information in a clear and concise manner A heart rate ruler is included to help determine heart rate while practicing ECG recognition A 4 x 6 pocket size quick reference card with key ACLS algorithms is included for field use Vascular Access and Medications combined into one chapter to present venous circulation information

with all relevant common medications used during a cardiac related emergency **Diet Related to Killer Diseases, II**
United States. Congress. Senate. Select Committee on Nutrition and Human Needs,1977 Study Guide to Accompany
Pharmacology for Nursing Care Marshal Shlafer,Richard A. Lehne,2004 This study guide features high claiber learning
activities that apply the renowned Dr Marshal Shlafer s rich experience in teaching pharmacology to a wide range of student
learning styles *Diet Related to Killer Diseases* United States. Congress. Senate. Select Committee on Nutrition and
Human Needs,1977 Lange Review Ultrasonography Examination with CD-ROM, 4th Edition Charles S. Odwin,Arthur C.
Fleischer,2012-08-22 Rev ed of Appleton Lange review for the ultrasonography examination edited by Carol A Krebs Charles
S Odwin Arthur C Fleischer c2004 **Laboratory Guide for the Study of the Frog** Bertram Garner Smith,1917 **Study**
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to Accompany Human Biology Sylvia S. Mader,2003-08 This best selling text emphasizes the relationship between humans
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Table of Contents Heart Study Guide Answers

1. Understanding the eBook Heart Study Guide Answers
 - The Rise of Digital Reading Heart Study Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Heart 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 Study Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Heart Study Guide Answers
 - Personalized Recommendations
 - Heart Study Guide Answers User Reviews and Ratings
 - Heart Study Guide Answers and Bestseller Lists
5. Accessing Heart Study Guide Answers Free and Paid eBooks
 - Heart Study Guide Answers Public Domain eBooks
 - Heart Study Guide Answers eBook Subscription Services
 - Heart Study Guide Answers Budget-Friendly Options
6. Navigating Heart Study Guide Answers eBook Formats

- ePub, PDF, MOBI, and More
 - Heart Study Guide Answers Compatibility with Devices
 - Heart Study Guide Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Heart Study Guide Answers
 - Highlighting and Note-Taking Heart Study Guide Answers
 - Interactive Elements Heart Study Guide Answers
 8. Staying Engaged with Heart Study Guide Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Heart Study Guide Answers
 9. Balancing eBooks and Physical Books Heart Study Guide Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Heart Study Guide Answers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Heart Study Guide Answers
 - Setting Reading Goals Heart Study Guide Answers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Heart Study Guide Answers
 - Fact-Checking eBook Content of Heart 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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web in this lesson students will learn how to use prepositions of place correctly when they are describing a picture firstly the students give the teacher a drawing dictation as a whole class then they work in small groups to give drawing dictations to each other

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web activity project an image on the board remind the students not to turn around first or show the student at the front a picture the student who can see the picture describes the picture in detail to their partner the class using the target language no

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web the drawing version is usually known as a picture dictation but for this language point the same thing can be done with cut out or 3d shapes bent pipe cleaners fuzzy felt playdoh lego etc self created picture differences you can also give students a scene and tell them

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web this picture dictation can be used to help students practice describing and prepositions of place procedure divide the students into pairs have each pair sit back to back give one student a picture and the other student a piece of paper the student with the picture then describes it to their partner

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web this picture dictation can be used to help students practice describing and prepositions of place in pairs one student describes a picture to their partner who listens and draws the picture according to their partner s instructions

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web get students to colour the pictures in afterwards as a colour dictation for example colour the roof of the house green colour the door of the house red or get students to label different objects by writing the name of the object underneath it such as house bird etc

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web for example in the picture there is a house with two windows and there is a car with follow up drawing dictation activities below you will explore activities that are wonderful to conclude a drawing dictation activity describe the picture

after the drawing dictation activity

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web topic drawing dictations aims to learn how to use prepositions of place correctly when describing a picture to practise giving instructions to work in a group sharing information to complete a drawing task age group teenagers and young adults level a2 b1 b2 time 50 60 minutes materials paper and pencils introduction

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web give students model language and do an example in my picture the tree is next to the house on the left the other student reply yes that is the same as my picture or sorry my picture is different in my picture 5 students take turns describing the differences in each of their pictures until they have completed the picture

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web jan 16 2016 for instance with the story of the jackal and the crow i have used the picture below learners can also do picture dictations in pairs or groups with one learner looking at a picture and the other s drawing in fact this is a good way of following up a teacher led picture dictation with different pictures of course

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web subject art cross curricular links english language time 10 15 minutes materials paper crayons each student gets his her paper and crayons ready tell them what and where to draw children follow your instructions when they are done they can compare their picture with yours ours is bigger to see if they were right

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web preposition prepositions are words which show the relationship between a noun or a pronoun object and some other words in the sentence they are always followed by nouns or pronouns prepositions are classified into three groups as below always remember 1 prepositions are always followed by a noun never followed by a verb

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web the wattmeter is an instrument for measuring the electric active power or the average of the rate of flow of electrical energy in watts of any given circuit electromagnetic wattmeters are used for measurement of utility frequency and audio frequency power other types are required for radio frequency measurements

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