



## Circulatory System

## Answer Key

**Vocabulary:** artery, atrium, blood vessel, capillary, circulatory system, heart, heart valves, platelet, pulmonary artery, pulmonary vein, red blood cell, urea, ventricle, vein, white blood cell

**Prior Knowledge Questions** (Do these **BEFORE** using the Gizmo.)

*[Note: The purpose of these questions is to activate prior knowledge and get students thinking. Students are not expected to know the answers to the Prior Knowledge Questions.]*

1. Why do you need blood?

*Answers will vary. [In fact, blood brings oxygen, nutrients and other substances to body cells. Blood also carries wastes away from body cells.]*

2. What organ pushes blood through your body? *The heart.*

### Gizmo Warm-up

The **Circulatory System** Gizmo shows the **heart** and **blood vessels** that make up the **circulatory system**. Look at the heart.

1. How many chambers does the heart have? *Four*

2. Turn on **Show labels**. What are the names of the chambers?

*Right atrium, right ventricle, left atrium, and left ventricle.*

3. Do you see tiny "doors" that open and close as blood is pumped through the heart? *Yes*

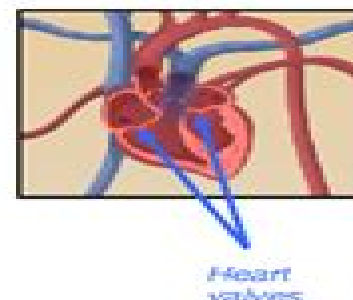
These are **heart valves**. Heart valves control the flow of blood through the heart.

4. Click **PLAY** and listen for the two parts of the heartbeat, nicknamed "lub" and "dub." Observe the heart. (Note: The recording is not in sync with the heart animation.)

What do you think causes heartbeat sounds? *Answers will vary.*

In fact, the "lub" sound is caused by valves from the **atria** to the **ventricles** closing, and the "dub" sound is caused by the valves from the ventricles to the blood vessels closing.

5. Challenge: Why do you think the left atrium and left ventricle are shown on the *right* side of the diagram? *[The directions are reversed because the diagram shows a person facing you.]*



# Standard Deviant The Circulatory System Answer Key

**Alexander S. Apt, Igor Kramnik, David  
Neil McMurray**



## **Standard Deviant The Circulatory System Answer Key:**

Noninvasive Vascular Diagnosis Ali F. AbuRahma, 2017-10-02 This large format book is the definitive text on vascular surgery written by expert editors and contributors. It is well supported by exceptional illustrative material. The book is invaluable to all those who work in vascular laboratories as well as internists, cardiologists, vascular laboratory directors, and staff general surgeons involved in vascular surgery and the vascular surgery community in general. Noninvasive Vascular Diagnosis comprehensively covers all aspects of noninvasive evaluation of the circulatory system in the extremities. The increasing popularity of noninvasive techniques is not reflected in the number of comprehensive works on the topic, and it is clear from the success of the first edition that the demand for an updated volume is increasing.

*The Global Circulation of the Atmosphere* Tapio Schneider, Adam H. Sobel, 2022-12-13 Despite major advances in the observation and numerical simulation of the atmosphere, basic features of the Earth's climate remain poorly understood. Integrating the available data and computational resources to improve our understanding of the global circulation of the atmosphere remains a challenge. Theory must play a critical role in meeting this challenge. This book provides an authoritative summary of the state of the art on this front. Bringing together sixteen of the field's leading experts to address those aspects of the global circulation of the atmosphere most relevant to climate, the book brings the reader up to date on the key frontiers in general circulation theory, including the nonlinear and turbulent global scale dynamics that determine fundamental aspects of the Earth's climate. While emphasizing theory as expressed through relatively simple mathematical models, it also draws connections to simulations with comprehensive general circulation models. Topics include the dynamics of storm tracks, interactions between wave dynamics and the hydrological cycle, monsoons, tropical and extratropical dynamics and interactions, and the processes controlling atmospheric humidity. An essential resource for graduate students in atmospheric, ocean, and climate sciences, and for researchers seeking an overview of the field, *The Global Circulation of the Atmosphere* sets the standard for future research in a science that stands at a critical juncture. With a foreword by Edward Lorenz, the book includes chapters by Christopher Bretherton, Kerry Emanuel, Isaac Held, David Neelin, Raymond Pierrehumbert, Hélène Brogniez, and Romy Roca. Alan Plumb, Walter Robinson, Tapio Schneider, Richard Seager, and David Battisti. Adam Sobel, Kyle Swanson, and Pablo Zurita Gotor, and Richard Lindzen.

*Photoacoustic and Photothermal Spectroscopy* Surya N. Thakur, Virendra N. Rai, Jagdish P. Singh, 2022-12-07 *Photoacoustic and Photothermal Spectroscopy: Principles and Applications* introduces the basic principles, instrumentation, and major developments in the many applications of Photoacoustic and Photothermal Spectroscopy over the last three decades. The book explains the processes of sound generation by periodic optical excitation and ultrasonic generation by pulsed laser excitation and describes the workings of photoacoustic cells equipped with microphones and piezoelectric transducers. Photoacoustic imaging (PAI) is one of the fastest growing imaging modalities of recent times. It combines the advantages of ultrasound and optical imaging techniques. These non-invasive and non-destructive techniques

offer many benefits to users by enabling spectroscopy of opaque and inhomogeneous materials solid liquid powder gel gases without any sample preparation and more Written in a non mathematical simple to read manner Presents recent developments in the field along with the scope of future progress including up to date references Includes detailed illustrations such as equipment layout spectra experimental setups tables photographs and more **Insights in General Cardiovascular Medicine: 2021** Pietro Enea Lazzarini,Junjie Xiao,Maurizio Acampa,Pier Leopoldo Capecci,Chen Liu,2022-08-30 *Heaving, Stretching and Spicing Modes* Rui Xin Huang,2020-08-20 This book is focused on fundamental aspects of climate variability in the ocean in particular changes of the wind driven circulation The vertical movement of isopycnal isothermal layers including their stretching and compression is called heaving and stretching A major part of climate variability in the ocean is heaving in nature Heave is primarily associated with the adiabatic motions of isopycnal layers due to change of wind stress It is rather difficult to separate the contributions from adiabatic and diabatic processes Isopycnal analysis has been widely used in climate study however it is much more accurate to study the isopycnal layers Here climate signals are examined in terms of changes of layer depth layer thickness layer temperature salinity spicity and others In addition to the traditional Theta S diagram the sigma pi potential density potential spicity diagram can also be used in analyzing water mass property distribution and climate variability In fact a radius of signal can be defined rigorously for signals in the sigma pi diagram the combination of isopycnal analysis and evaluation of radius of signal provides a powerful tool in analyzing climate variability in the world oceans *Sheet Metal 2023* Marion Merklein,Hinnerk Hagenah,Joost R. Duflo,Livan Fratini,Paulo Martins,Gerson Meschut,Fabrizio Micari,2023-04-02 The book presents recent advances in the following areas High speed cutting and forming of sheet metals Incremental forming Joining by forming Material characterization Modelling Presses and press tools Processes Quality and reliability Sustainability Keywords Sheet Metals High Speed Cutting Forming Joining Characterization Modelling Presses Press Tools Quality Reliability Sustainability Polygon Forming Processes Fused Filament Fabrication Pin Caulking Thermoplastic Composite Steel Hybrid Joining Self piercing Riveting Plastic Orthotropy on Clinching Stress related Fatigue High cycle Fatigue Clinching Process Simulations Magnetorheological Lubricant Elastomer Tooling Components Ultrasonic Vibration Microforming Laser Heat Treatment Fiber Reinforced Thermoset Plastics Customized Classification System Stainless Steel Deep Drawing Thermoplastic Organosheets Friction Drilling of Titanium Medical Applications Laser Cut Edges Industrial Defect Detection Bayes Filters Benign Volatile Lubricants Sheet Hydroforming Zinc coated Boron manganese Steel Thermoplastic Fibre Metal Laminates **Mycobacteria-Host Interactions: Genetics, Immunity, Pathology** Alexander S. Apt,Igor Kramnik,David Neil McMurray,2020-12-30 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research

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**Glaciers and Glaciation, 2nd edition** Douglas Benn,David J A Evans,2014-02-04 Glaciers and Glaciation is the classic textbook for all students of glaciation Stimulating and accessible it has established a reputation as a comprehensive and essential resource In this new edition the text references and illustrations have been thoroughly updated to give today s reader an up to the minute overview of the nature origin and behaviour of glaciers and the geological and geomorphological evidence for their past history on earth The first part of the book investigates the processes involved in forming glacier ice the nature of glacier climate relationships the mechanisms of glacier flow and the interactions of glaciers with other natural systems such as rivers lakes and oceans In the second part the emphasis moves to landforms and sediment the interpretation of the earth s glacial legacy and the reconstruction of glacial depositional environments and palaeoglaciology

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**State and Evolution of the Baltic Sea, 1952-2005** Rainer Feistel,Günther Nausch,Norbert Wasmund,2008-03-31 Based on a fifty year study conducted by the Leibniz Institute for Baltic Sea Research this book brings together a comprehensive summary of their observations and findings Written by well known experts this revealing book concentrates on long term changes in the Baltic Sea which can be extrapolated to shed light on the environmental problems of other shelf seas brackish seas and large estuaries thereby contributing to our understanding of water exchange processes eutrophication and climatic impacts at the forefront of international concern

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*The Cyclopedic Education Dictionary* Carol A. Spafford,Carol Sullivan Spafford,Augustus J. Itzo Pesce,George S. Grosser,1998 This book has been designed to provide professional educators parents and college students with educational terms concepts issues strategies and information critical to understanding today s classroom Containing over 10 000 definitions acronyms and abbreviations provides valuable information in areas such as the World Wide Web and computers legal issues and responsibilities literacy development

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*Atlas of Lymphoscintigraphy and Sentinel Node Mapping* Giuliano Mariani, Sergi Vidal-Sicart, Renato A. Valdés Olmos, 2020-07-29 The main goal of the second edition of this book is to update the content on the rapidly growing field of lymphoscintigraphy a radionuclide based imaging procedure that provides information on the functional status of the lymphatic system Although the technique was originally introduced to identify the cause of peripheral edema i e blockage of the venous or lymphatic circulation more recent and widespread applications include radioguided biopsy of the sentinel lymph node in patients with solid cancers This procedure is crucial for the adequate planning of oncologic surgery in a growing number of cancers most notably breast cancer cutaneous melanoma head and neck cancers penile cancer and cervical cancer The book focuses on the latest advances in lymphoscintigraphy techniques including both novel tracers recently approved for clinical use especially in the field of sentinel lymph node mapping and the expanding role of hybrid imaging with SPECT CT and in sentinel node detection using hybrid tracers radiolabeled and fluorescent for dual signature guidance Each chapter addresses the clinical application of lymphoscintigraphy in different anatomic areas or disease conditions After an introductory section concerning the pathophysiology of the specific site disease the clinical relevance and impact of lymphoscintigraphy is demonstrated by a collection of richly illustrated teaching cases describing the lymphoscintigraphic patterns most commonly observed as well as anatomic variants and technical pitfalls Emphasis is placed on tomographic multimodality imaging The book gathers contributions by experts in nuclear oncology who have revised their chapters by updating the didactic material and adding clinical cases Regarding sentinel lymph node biopsy in particular a major distinction of this text is the incorporation of the staging guidelines of the American Joint Committee on Cancer 8th edition into the didactic material     **Ecological Applications of Earth System Models and Regional Climate Models**

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