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Overview Of The
Circulatory
System Answer
Key

Overview Of The Circulatory System Answer Key

An Introduction to
Cardiovascular
Physiology is
designed primarily for

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students of medicine
and physiology. This
introductory text is

mostly didactic in
teaching style and it
attempts to show that
knowledge of the
circulatory system is
derived from
experimental
observations. This
book is organized into
15 chapters. The

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chapters provide a
fuller account of

microvascular

physiology to reflect

the explosion of

microvascular

research and include a

discussion of the

fundamental function

of the cardiovascular

system involving the

transfer of nutrients

from plasma to the

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tissue. They also cover major advances in cardiovascular physiology including biochemical events underlying Starling's law of the heart, nonadrenergic, non-cholinergic neurotransmission, the discovery of new vasoactive substances produced by

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endothelium and the novel concepts on the organization of the central nervous control of the circulation. This book is intended to medicine and physiology students. Discusses what the circulatory system is, how it works, and how it responds to exercise

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and hemorrhage.

Discusses the organs
and function of the

human circulatory
system, the vital
functions of blood,
and the medical
diagnosis and

treatment of heart
disease and other
circulatory disorders.

This book includes 10
lectures in a light,

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entertaining style,
with each "lecture"
Key

building on the
previous one - making
it easy for the reader to
comprehend the vastly
complicated functions
of the circulatory
system. The length of
the text has
intentionally been
kept short; it is neither
exhaustively complete

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nor over-simplified. It is enriched by details about basic biologic mechanisms and clever ways nature has solved a problem or achieved a result.

Cardiovascular
Physiology
How the Circulatory
System Works
The Amazing
Circulatory System

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Concepts of Biology

The human

circulatory system

is essential for

pumping blood

throughout a

person's body.

Without it, humans

wouldn't be able to

live. This guide

explores the main

elements of the

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circulatory system,
introduces key
parts such as
blood vessels and
the heart, and
examines
problems with this
system. Complete
with fact boxes
and intriguing
sidebars,
accessible

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language,
discussion
System Answer
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questions, and
descriptive
photographs and
diagrams, this
introduction will
appeal to readers
of all levels.

Concepts of
Biology is
designed for the

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single-semester
introduction to
biology course for
non-science
majors, which for
many students is
their only college-
level science
course. As such,
this course
represents an
important

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opportunity for
students to
develop the
necessary
knowledge, tools,
and skills to make
informed decisions
as they continue
with their lives.
Rather than being
mired down with
facts and

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vocabulary, the
System Answer
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typical non-science
major student
needs information
presented in a way
that is easy to read
and understand.

Even more
importantly, the
content should be
meaningful.

Students do much

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better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight

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careers in the
biological sciences
and everyday
applications of the
concepts at
hand. We also
strive to show the
interconnectedness
of topics within
this extremely
broad discipline. In
order to meet the

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needs of today's
instructors and
students, we
maintain the
overall
organization and
coverage found in
most syllabi for this
course. A strength
of Concepts of
Biology is that
instructors can

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customize the book, adapting it to the approach that works best in their classroom.

Concepts of Biology also includes an innovative art program that incorporates critical thinking and

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clicker questions to
help students

understand--and
apply--key
concepts.

"Engaging text and
informative images
help readers learn
about their
circulatory
system."--

The book

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comprises
contributions by
some of the most
respected
scientists in the
field of
mathematical
modeling and
numerical
simulation of the
human
cardiocirculatory

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system. The contributions cover a wide range of topics, from the preprocessing of clinical data to the development of mathematical equations, their numerical solution, and both in-vivo and in-vitro

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validation. They discuss the flow in the systemic arterial tree and the complex electro-fluid-mechanical coupling in the human heart.

Many examples of patient-specific simulations are presented. This

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book is addressed
to all scientists
interested in the
mathematical
modeling and
numerical
simulation of the
human
cardiocirculatory
system.

Anatomy and
Physiology

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Ross & Wilson
Anatomy and
Physiology in
Health and Illness
E-Book

Circulatory
System, an
Illustrated Guide
for Nursing
Education

A Programmed
Learning Approach

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to the Language of
Health Care

The

**circulatory
system is made
up of the
heart, the
blood, and
strong tubes
called blood
vessels. But
what does the**

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System Answer
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circulatory
system do? And
how do its
parts work
together to
keep your body
healthy?

Explore the
circulatory
system in this
engaging and
informative

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book.

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Research

centering on
blood flow in
the heart
continues to
hold an
important
position,
especially
since a better
understanding

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of the subject
may help
reduce the
incidence of
coronary
arterial
disease and
heart attacks.
This book
summarizes
recent
advances in

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the field; it
is the product
of fruitful
cooperation
among
international
scientists who
met in Japan
in May, 1990
to discuss the
regulation of
coronary blood

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flow.

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System

Dynamics

reviews

cardiovascular

dynamics from

the analytical

viewpoint and

indicates ways

in which the

accumulated

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knowledge can
be expanded
and applied to
further
enhance
understanding
of the normal
mammalian
circulation,
to ascertain
the nature of
difficulties

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associated
System Answer
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with disease,
and to test
the effect of
treatment.

Comprised of
10 chapters,
this volume
begins with an
overview of
the
circulatory

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**system,
including its
anatomy and**

**the trigger
for myocardial
(heart muscle)
contraction.**

**The discussion
then turns to
measurement of
blood pressure
using invasive**

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and non-
invasive
techniques;
blood flow
measurement,
with emphasis
on cardiac
output and
measurement in
the microcircu-
lation; the
system and

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pulmonary
arterial
trees; and
pulsatile
pressure and
flow in
pulmonary
veins.

Subsequent
chapters
explore micro
circulation and

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the anatomy of
the microvascu-
lature; the

heart and
coronary
circulation,
paying
particular
attention to
the Frank-
Starling
mechanism and

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indices of
myocardial "co
ntractility";
and control of
blood
pressure,
peripheral
resistance,
and cerebral
flow. The last
two chapters
deal with

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**circulatory
assistance and
the closed
cardiovascular
system. This
book will be
of interest to
students,
practitioners,
and
researchers in
fields ranging**

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from

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Key
physiology and
biology to

biochemistry

and

biophysics.

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move around

inside the

human body?

Students will

learn all

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about the
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heart, blood
cells, blood
vessels, and
other
important
parts of the
circulatory
system.

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Well-Being
System Answer
Assessment
Key

The Science of
the Heart and
Circulatory
System

Circulatory
System

Advanced

*This medical
terminology text
uses a*

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*Programmed
Learning*

*approach that is
ideal for
classroom use,
self-paced study,
or distance
learning. It is
broken down into
concise self-
instruction
frames followed
by review frames*

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*for immediate
feedback and
reinforcement.
Actual medical
records and
medical record
analysis activities
are used
extensively
throughout the
book. Highlights
of this edition
include a more*

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*engaging design,
additional
illustrations,
more detailed
coverage of term
components,
chapter
objectives
checklists, and
acronyms and
abbreviations
charts. A free
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System*

DynamicsElsevier

"An introduction

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*to the nervous
system of the
human body--one
of six volumes in
a set titled
WORLD BOOK'S
HUMAN BODY
WORKS. Includes
illustrations,
glossary,
resource list, and
index"--Provided
by publisher.*

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What makes our hearts pump?

How does blood circulate throughout our bodies? Curious readers will love this innovative look at the human heart and circulatory system. Clean, simple flowcharts

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*located at the
end of each
chapter break
down complex
processes into
bite-sized
information. This
allows readers to
visualize and
retain essential
curriculum
materials while
having fun.*

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*Colorful graphics
and clear*

*language further
ensure the
accessibility of
this important
information. Even
readers who are
reluctant to study
science will be
eager to explore
this unique,
visually rich*

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*book. All libraries
will have a place
for this engaging
look at the
human heart and
circulatory
system.*

*Biomechanical
Modeling of the
Cardiovascular
System
Biology
Regulation of*

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*Modeling the
Heart and the
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-- and focus on what
you really need to
know to ace the
course and board

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study time Medical

Physiology: The Big

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what you need! With

an emphasis on

what you "need to

know" versus

"what's nice to

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know,” and
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full-color

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a focused,
streamlined
overview of medical
physiology. You'll
find a succinct, user-
friendly presentation
designed to make
even the most
complex concepts

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understandable in a short amount of time. With just the right balance of information to give you the edge at exam time, this unique combination text and atlas features: A “Big Picture” perspective on precisely what you must know to

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ace your course
work and board
exams Coverage of
all the essential
areas of Physiology,
including General,
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Blood,
Cardiovascular,
Pulmonary, Renal
and Acid Base,
Gastrointestinal,
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circulatory system
and their function.

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heart problems and
how they may be
avoided.

Maintaining quality
of life in an ageing
population is one of
the great challenges
of the 21st Century.

This book
summarises how

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this challenge is being met by multi-disciplinary developments of specialty biomaterials, devices, artificial organs and in-vitro growth of human cells as tissue engineered constructs.

Biomaterials,

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Artificial Organs and
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is intended for use
as a textbook in a
one semester
course for upper
level BS, MS and
Meng students. The
25 chapters are
organized in five
parts: Part one
provides an
introduction to living

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and man-made materials for the non-specialist; Part two is an overview of clinical applications of various biomaterials and devices; Part three summarises the bioengineering principles, materials and designs used in artificial organs; Part

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four presents the concepts, cell techniques, scaffold materials and applications of tissue engineering; Part five provides an overview of the complex socio-economic factors involved in technology based healthcare,

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including regulatory
controls, technology
transfer processes
and ethical issues.

Comprehensive
introduction to living
and man-made
materials Looks at
clinical applications
of various
biomaterials and
devices

Bioengineering

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principles, materials
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and designs used in
artificial organs are
summarised

Through engaging
text, readers learn
about the human
body's circulatory
system, which
consists of the
heart, the blood
vessels, and the
blood that is

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pumped through them. Readers discover that the circulatory system transports oxygen and nutrients throughout the body, carries away waste products, sends out disease fighters, and regulates the body's temperature. Topics

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discussed include the lungs, the kidneys, and diseases that affect the circulatory system. A detailed diagram allows readers to follow a drop of blood through the circulatory system. Ways to maintain a healthy circulatory

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system are also highlighted. Full-color photos, phonetics, glossary, and index enhance the text.

Medical Physiology :
The Big Picture
Circulatory System
Biomaterials,
Artificial Organs and
Tissue Engineering
Regulation of Tissue

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human circulatory
system. Includes
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sidebars to
further explain
more complex
concepts.

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need to know

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about the
cardiovascular
system... at a
Glance! The
Cardiovascular
System at a
Glance is the
essential
reference guide to
understanding all
things circulatory.
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accessible, and

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this latest edition
presents an
integrated
overview of the
subject, from the
basics through to
application.

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new content on
stroke,
examination and
imaging, heart

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block and ECGs,
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and

channelopathies,
The

Cardiovascular
System at a

Glance goes one
step further and
offers new and
updated clinical
case studies and
multiple-choice

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supplementary
Key
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science and
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Offers bite-size
chapters that
make topics easy
to digest Includes
coverage of
anatomy and
histology, blood

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and haemostasis,
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cellular

physiology, form
and function,

regulation and

integration of

cardiovascular

function, history,

examination and

investigations,

pathology and

therapeutics Filled

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reinforce learning
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junior doctors,
students of other

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health
professions, and
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"Discusses the
parts that make up
the human
circulatory
system, what can
go wrong, how to
treat those
illnesses and
diseases, and how

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to stay
healthy"--Provide
d by publisher.

The Circulatory
System Biology
Most animals are
complex
multicellular
organisms that
require a
mechanism for
transporting
nutrients

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throughout their bodies and removing waste products. The circulatory system has evolved over time from simple diffusion through cells in the early evolution of animals to a complex network

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of blood vessels that reach all parts of the human body. This extensive network supplies the cells, tissues, and organs with oxygen and nutrients, and removes carbon dioxide and waste, which are

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byproducts of
respiration. Gas
exchange is one
essential function
of the circulatory
system. A
circulatory
system is not
needed in
organisms with no
specialized
respiratory organs
because oxygen

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and carbon
dioxide diffuse
directly between
their body tissues
and the external
environment.

However, in
organisms that
possess lungs and
gills, oxygen must
be transported
from these
specialized

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Key

respiratory organs
to the body
tissues via a
circulatory
system.

Therefore,
circulatory
systems have had
to evolve to
accommodate the
great diversity of
body sizes and
body types

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present among
animals. Chapter
Outline: Overview
of the Circulatory
System

Components of
the Blood

Mammalian Heart
and Blood Vessels

Blood Flow and

Blood Pressure

Regulation The

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Circulatory
System Dynamics
Cardiovascular

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Physiology, Mosby
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Monograph Series
(with Student
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Access), 10

Did you know that the average adult has about 60,000 miles (95,500 kilometers) of blood vessels? Blood flows through the body in two circuits, or

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*pathways, that begin
and end at the heart.*

*Discover more
fascinating facts in
Circulatory System, a
title in the Body
Systems series. Each
title in Body Systems
guides readers
through the
fascinating inner
workings of the
human body. The
human body contains*

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several complex systems that work closely together to support life and allow the body to function properly. Each book explores the characteristics and interactions of these systems, their makeup, and their importance. This is an AV2 media enhanced book. A unique book

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book to life. This book
comes alive with
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courses covers the
scope and sequence
requirements of a
typical two-semester*

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*requirements of the
College Board's AP®*

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while allowing*

*significant flexibility
for instructors. Each
section of the book
includes an*

*introduction based on
the AP® curriculum
and includes rich*

*features that engage
students in scientific
practice and AP® test*

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*preparation; it also
highlights careers and
research opportunities
in biological sciences.*

*Biomechanical
Modeling of the
Cardiovascular
System brings
together the
challenges and
experiences of
academic scientists,
leading engineers,
industry researchers*

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*and students to
enable them to
analyse results of all
aspects of
biomechanics and
biomedical
engineering. It also
provides a
springboard to
discuss the practical
challenges and to
propose solutions on
this complex subject.
Humorous text paired*

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with comic illustrations, brings anatomy and science of the body to life for young readers in this exploration of the circulatory system.

From the author and illustrator of THE QUEST TO DIGEST comes another playful way to learn about the body and its inner workings. Readers

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follow a red blood cell on its journey through the heart, lungs, veins, arteries, capillaries, and more, as they see how the body combats disease, performs gas exchanges, and fights plaque. This whimsical glimpse into the human body is fun and informative, perfect for the

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*classroom or the
home, and is sure to
please the most
curious of readers.*

*How Does My Heart
Work?*

*The Circulatory
System*

Medical Terminology
Most of us think
about our
circulatory

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system only
when something
goes wrong, but
the amazing
story of how it
goes right--"mag
nificently right,"
as author
Steven Vogel
puts it--is
equally worthy
of our attention.

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It is physically remarkable, bringing food to (and removing waste from) a hundred trillion cells, coursing through 60,000 miles of arteries and veins (equivalent to over twice

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around the
System Answer
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earth at the
equator). And it
is also
intriguing. For
instance, blood
leaving the
heart flows
rapidly through
the arteries,
then slows down
dramatically in

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the capillaries
(to a speed of
one mile every
fifty days), but
in the veins, on
its way back to
the heart, it
speed up again.
How? In *Vital
Circuits*, Steven
Vogel answers
hundreds of

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such questions,
System Answer
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in a fascinating,
often witty, and
highly original
guide to the
heart, vessels
and blood.

Vogel takes us
through the
realm of biology
and into the
neighboring

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fields of physics,
fluid mechanics,
and chemistry.

We relive the
discoveries of
such scientists
as William
Harvey and Otto
Loewi, and we
consider the
circulatory
systems of such

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fellow earth-
dwellers as
octopuses,
hummingbirds,
sea gulls,
alligators,
snails, snakes,
and giraffes.

Vogel is a
master at using
everyday points
of reference to

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illustrate
potentially
daunting
concepts.

Heating
systems, kitchen
basters, cocktail
parties,
balloons--all are
pressed into
service. And we
learn not only

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such practical
System Answer
Key
information as
why it's a bad
idea to hold
your breath
when you strain
and why you
might want to
wear support
hose on a long
airplane flight,
but also the

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answers to such
seemingly
unrelated issues
as why duck
breasts (but not
chicken breasts)
have dark meat
and why dust
accumulates on
the blades of a
fan. But the real
fascination of

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Vital Circuits
System Answer
Key

lies neither in
its practical
advice nor in its
trivia. Rather, it
is in the detailed
picture we
construct, piece
by piece, of our
extraordinary
circulatory
system. What's

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more, the
author
communicates
not just
information, but
the excitement
of discovering
information. In
doing so, he
reveals himself
to be an
eloquent

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advocate for the
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blood, the
carrier of
oxygen within
these
components of
the cardiorespiratory system.
The respiratory system takes oxygen from the atmosphere and transports it by

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diffusion from
the air in the
alveoli to the
blood flowing
through the
pulmonary
capillaries. The
cardiovascular
system then
moves the
oxygenated
blood from the

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heart to the
microcirculation
of the various
organs by
convection,
where oxygen is
released from
hemoglobin in
the red blood
cells and moves
to the
parenchymal

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cells of each
tissue by
diffusion.

Oxygen that has
diffused into
cells is then
utilized in the
mitochondria to
produce
adenosine
triphosphate
(ATP), the

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energy currency of all cells. The mitochondria are able to produce ATP until the oxygen tension or PO_2 on the cell surface falls to a critical level of about 4-5 mm Hg. Thus, in

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order to meet
the energetic
needs of cells, it
is important to
maintain a
continuous
supply of
oxygen to the
mitochondria at
or above the
critical PO_2 . In
order to

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accomplish this
desired

outcome, the ca
rdiorespiratory
system,

including the
blood, must be
capable of
regulation to
ensure survival
of all tissues
under a wide

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range of
circumstances.

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to provide basic
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about the
operation and
regulation of the
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and respiratory

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systems, as well
as the
properties of the
blood and
parenchymal
cells, so that a
fundamental
understanding
of the regulation
of tissue
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