

Anatomy and Physiology I

Final Exam Study Guide

From Exam 1: Lesson 2

(slides 3-18, 21-31, 35-52)

Introduction

- 1665 Robert Hooke inspected thin slices of cork and found they consisted of millions of small, irregular units
- This research produced the cell theory
 - Cells are building blocks of all plants and animals
 - All cells come from division of preexisting cells
 - Cells are smallest units that perform all vital physiological functions
 - Each cell maintains homeostasis at cellular level
- Cytology- the study of cellular structure and function; part of cell biology- integrates aspects of biology, chemistry and physics
- Two general classes of cells:
 - Sex cells (germ/reproductive cells)-are either the sperm of males or oocytes of females
 - Somatic cells- include all other cells in human body

3-1

- Plasma membrane- outer boundary of a cell, also called cell membrane
 - Physical isolation-physical barrier that separates inside of cell from surrounding extracellular fluid
 - Regulation of exchange with environment- plasma membrane controls entry of ions and nutrients, eliminations of wastes and release of secretions
 - Sensitivity to environment- first part of the cell affected by changes in the composition, concentration or pH of extracellular fluid
 - Contain receptors that allow cell to recognize and respond to specific molecules in its environment
 - Structural support- specialized connections between plasma membrane, or between membranes and extracellular materials give tissues stability
- Plasma membrane is extremely thin and contains lipids, proteins and carbohydrates
- Membrane lipids-form most of the surface area of the plasma membrane but only make up 42% of its weight
 - Plasma membrane is called the Phospholipid bilayer-phospholipid molecules in it form two layers
 - Has hydrophilic end (phosphate portion) and hydrophobic end (lipid portion)
 - In each half of bilayer, lie with hydrophilic heads at membrane surface and hydrophobic tails in inside
 - Also contains cholesterol and small quantities of other lipids
 - Water and solutes cannot cross the lipid portion of the plasma membrane
- Membrane proteins-account for about 55% of weight of plasma membrane
 - Integral proteins-part of membrane structure and cannot be removed with damaging/destroying the membrane
 - Most span the width of the membrane one or more times, therefore known as transmembrane proteins
 - Greatly

Anatomy And Physiology 1 Final Exam Study Guide

Elliot Spencer



Anatomy And Physiology 1 Final Exam Study Guide:

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Pepper,2022-06-23 Designed to support the trusted content in Kinn s The Clinical Medical Assistant 14th Edition this study guide and procedure checklist manual is the essential review and practice companion to reinforce key concepts encourage critical thinking and ensure your mastery of clinical medical assisting content This robust companion guide offers a wide range of exercises to reinforce your understanding of common clinical skills including new certification preparation questions that offer additional practice for certification exams a new chapter review of medical terminology and anatomy and need to know workplace applications Trusted for more than 60 years Kinn s Clinical Study Guide and Procedure Checklist Manual also features competency checklists to clearly assess your performance and progression from day one until you land your first job as a Medical Assistant Hundreds of practice questions test your knowledge and comprehension with vocabulary review multiple choice fill in the blank and true false questions Skills practice workplace applications and online activities promote your critical thinking skills Procedure checklists help you track your performance of key toward mastery of key skills and job readiness Work products allows you to provide documentation or file in professional portfolios to use in job searching Chapter by chapter correlation with the textbook allows you to easily test your comprehension as you go Perforated pages are easily removed for on the go study or turn in assignments and evaluations NEW Chapter reviews medical terminology anatomy and physiology and pathology to help you build a solid medical foundation NEW Streamlined presentation of the material combines chapters in an easier to read format NEW Certification Preparation questions help you focus on becoming certification ready from Day 1

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The 2004 Guide to the Evaluation of Educational Experiences in the Armed Services American Council on Education Staff, 2004-10-27 Step-Up to USMLE Step 1 Michael McInnis, Brian Jenkins, Samir Mehta, Chris Lewis, Sonia Mehta, Adam Mirarchi, Edmund Milder, 2013-01-08

Thoroughly revised and updated for its Fifth Edition with the help of Doctors in Training com LLC Step Up to USMLE Step 1 is the most effective comprehensive systems based review for the USMLE Step 1 exam The book has been widely acclaimed for its high yield systems based organization which parallels the USMLE Step 1 content outline and helps students synthesize the information from their basic science courses The popular user friendly format features numerous charts and diagrams and Quick Hits notes in the margins that help students integrate concepts across systems In the Fifth Edition clinical vignettes have been developed within each chapter pharmacology has been further integrated into the systems based format a Crunch Time Review has been added and a new chapter outlines study tips and strategies A companion Website features fully searchable online text a sample question bank and more

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Sandy Fritz, Luke Allen Fritz, 2023-09-11 Written by massage therapy experts Sandy Fritz and Luke Fritz this unique review resource uses a variety of methods to help you prepare for the MBLEx Massage and Bodywork Licensing Exam and the Board Certification in Therapeutic Massage and Bodywork BCTMB The comprehensive review features updated content and questions based on the most current exam blueprints The practice exams are written in a five part process not just as sample questions Plus a companion Evolve website comes loaded with practice exams and a variety of review activities such as labeling exercises flashcards electronic coloring book games and much more No other massage review gives you such well

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