

ANATOMY AND PHYSIOLOGY II: FINAL EXAM REVIEW

Module 1: Blood

- Primary Functions of the Hematological System (blood):
 - Delivery of substances needed for cellular metabolism
 - Removal of wastes
 - Defence against microorganisms
 - Maintenance of acid-base balance
- Composition of Whole Blood:
 - Composition:
 - 55% plasma
 - 45% formed elements
 - Function:
 - Complex transport medium that performs vital pickup and delivery services for the body
 - Key component of the body's heat regulating mechanism
 - Hematocrit: % RBCs in whole blood sample - males and people who exercise tend to be higher
- Composition of Blood Plasma
 - Overview:
 - Liquid part of blood, clear, straw-coloured fluid
 - 90% water and 10% solutes
 - Proteins (6-8% plasma)
 - Synthesized in the liver
 - Important in maintaining normal blood circulation
 - Albumins: help maintain osmotic balance of blood
 - Globulins: essential part of immunity mechanism
 - Fibrinogen: key role in blood clotting.
- Red Blood Cells & Hematocrit Levels
 - Hematocrit: volume percent of RBCs in whole blood
 - Average: men (45%) and women (42%)
 - Normal HCT: normal percentages of RBCs
 - Low HCT: anemia - low percentage of RBCs
 - High HCT: polycythemia - high percentage of RBCs
- Erythrocytes (RBCs)
 - Structure:
 - Contains no nucleus, ribosomes, mitochondria, or other organelles
 - Primary component: hemoglobin (Hb)
 - Shape: biconcave disks - large surface area relative to its volume, compared to sphere to provide enormous potential for gas exchange.
 - Function:
 - Critical role in transport of O₂ or CO₂ - depends on Hb
 - Contains enzyme carbonic anhydrase - promotes reaction
 - Formula:
 - $\text{CO}_2 + \text{H}_2\text{O} \leftrightarrow \text{H}_2\text{CO}_3 \leftrightarrow \text{H} + \text{HCO}_3$
- Hemoglobin (Hb)
 - Overview:
 - Each RBS contain 200-300 million molecules of hemoglobin
 - Each Hb can build 4 O₂ molecules, each RBC can transport 1 billion O₂ molecules
 - Structure:
 - Hemoglobin is made up of 4 globin (protein) chains, each attached to a heme group with 1 Fe atom.

Anatomy And Physiology 2 Final Exam Answers

Katrin Zwirgmaier



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Technology and Innovation in Learning, Teaching and Education Arsénio Reis, José P. Cravino, Leontios Hadjileontiadis, Paulo Martins, Sofia B. Dias, Sofia Hadjileontiadou, Tassos Mikropoulos, 2025-08-21 The three volume set CCIS 2479 2481 constitutes the proceedings of the 4th International Conference on Technology and Innovation in Learning Teaching and Education TECH EDU 2024 held in Abu Dhabi United Arab Emirates during November 13 15 2024 The 79 full papers presented in this volume were carefully reviewed and selected from 167 submissions The papers are organized in the following topical sections Part I Artificial Intelligence in Education Emerging Technologies and Learning Environments Part II Open Education Digital Resources and Online Assessment Pedagogical and Curricular Innovation Part III Technology Integration and Educational Policy Minutes of the General Council of Medical Education & Registration of the United Kingdom; of the Executive Committee, and of the Branch Councils General Medical Council (Great Britain), 1874

Classroom to Clinic Study System Mona Sedrak, Scott Massey, 2010-12-22 Be prepared for classroom clerkship exams PANCE PANRE and recertification Are you feeling overwhelmed by the seemingly huge amount of information you need to master Turn to this integrated learning system designed by PA educators for PA students and practicing PAs **The Bookseller, Newsdealer and Stationer**, 1899 Report of the Dental Council of Pennsylvania Dental Council of Pennsylvania, 1901 **Medical Record** George Frederick Shrady, Thomas Lathrop Stedman, 1895 *Transactions of the fourth International Dental Congress v. 3*, 1905 *The Students' Journal, and Hospital Gazette*, 1883 **The Comprehensive Neurosurgery Board Preparation Book** Paul V. Birinyi, Najib E. El Tecle, Eric Marvin, 2016-09-21 Board certification by the American Board of Neurological Surgery is considered the gold standard for neurosurgeons practicing in the U S The ABNS primary examination requires many months of preparation and passing it is both a significant accomplishment and integral component in becoming board certified Contributions from current neurosurgical residents and seasoned practitioners infuse this book with a well rounded perspective Having been there and done that the authors incorporated what they felt was missing from board review books when they sat for the exam resulting in a bucket list study guide The review is organized by neurosurgical topic with 20 chapters equally divided among questions followed by answers Starting with physiology and anatomy each chapter methodically covers core topics including radiology neurology pathology histology ophthalmology and more The authors provide brief explanations and pearls that accompany each question which provide a solid springboard for delving deeper into any given topic The easy to follow format enables residents to partake in long study sessions or tackle just a question or two in the midst of a busy day of neurosurgical service Key Highlights More than 1 300 questions reflect key concepts in the ABNS primary exam Enhanced with more than 350 images most in color which reflect the computerized image rich format of the current exam A full length practice test at the end of the book mirrors the cadence and time constraints of the actual exam Explanations of correct and incorrect answers facilitate learning

and retaining vast amounts of material This comprehensive board review book will help neurosurgical residents of all levels prepare thoroughly for the March exam It is a one stop self assessment tool for any neurosurgeon who endeavors to attain and maintain ABNS certification **Bowker's Medical Books in Print** ,1972 **The Detroit Lancet** Leartus Connor, Henry Alexander Cleland, 1883 *British Medical Journal* ,1871 *Medical Massage Care's Therapeutic Massage National Certification Practice Exams 2008 Edition* Philip Martin McCaulay, 2007-11-03 Medical Massage Care's Therapeutic Massage National Certification Practice Exams 2008 Edition will help massage therapy students pass the exam on therapeutic massage administered by the National Certification Board for Therapeutic Massage and Bodywork

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