

AP® PHYSICS 2 FREE-RESPONSE QUESTIONS

PHYSICS 2

Section II

4 Questions

Time—90 minutes

Directions: Questions 1 and 4 are short free-response questions that require about 20 minutes each to answer and are worth 10 points each. Questions 2 and 3 are long free-response questions that require about 25 minutes each to answer and are worth 12 points each. Show your work for each part in the space provided after that part.



Note: Figure not drawn to scale.

1. (10 points, suggested time 20 minutes)

Two students observe water flowing from left to right through the section of pipe shown above, which decreases in diameter and increases in elevation. The pipe ends on the right, where the water exits vertically. At point A the water is known to have a speed of 0.50 m/s and a pressure of $2.0 \times 10^5 \text{ Pa}$. The density of water is 1000 kg/m^3 .

- (a) The students disagree about the water pressure and speed at point B. They make the following claims.
- Student Y claims that the pressure at point B is greater than that at point A because the water is moving faster at point B.
- Student Z claims the speed of the water is less at point B than that at point A because by conservation of energy, some of the water's kinetic energy has been converted to potential energy of the Earth-water system.
- Indicate any aspects of student Y's claim that are correct.
 - Indicate any aspects of student Y's claim that are incorrect. Support your answer using appropriate physics principles.
 - Indicate any aspects of student Z's claim that are correct.
 - Indicate any aspects of student Z's claim that are incorrect. Support your answer using appropriate physics principles.

Ap Response Questions On Fluids

James H. Wood



Ap Response Questions On Fluids:

Fluid, Electrolyte, and Acid-Base Imbalances Allison Hale, Mary Jo Hovey, 2013-10-29 Here's all of the crucial coverage you need to succeed in class and confidently prepare for your classroom exams and the NCLEX Easy to follow outlines focus on the information essential to make this challenging subject more manageable **Neurobiology of Cerebrospinal Fluid**

1 James H. Wood, 2013-06-29 Physiologic compartmentalization effectively isolates the central nervous system from the rest of the body This isolation not only provides protection of its delicate function from aberrant peripheral influences but also impedes its diagnostic evaluation Cerebro spinal fluid CSF bathes the brain and spinal cord is in dynamic equilibrium with its extracellular fluid and tends to reflect the state of health and activity of the central nervous system CSF examination is the most direct and popular method of assessing the central chemical and cellular environment in the living patient or mammal The purpose of this multidisciplinary reference text is to provide the sophisticated knowledge of CSF physiology and pathology necessary for the meaningful interpretation of data obtained by various types of CSF analysis The methodology for reliable CSF collection storage preparation and analysis is discussed with respect to individual somatotropic chronologic endocrinologic pharmacologic and possible artifactual variations in CSF composition These essential aspects which ensure the validity of CSF data are presented to aid the investigator in clinical and experimental protocol formulation and in elimination of possible sources of error **Regulation of Body Fluid Volumes by the Kidney** J. H. Cort, B.

Lichardus, 1970-11-24 **Neurobiology of Food and Fluid Intake** Edward M. Stricker, Stephen Woods, 2006-05-04 Like previous handbooks the present volume is an authoritative and up to date compendium of information and perspective on the neurobiology of ingestive behaviors It is intended to be stimulating and informative to the practitioner whether neophyte or senior scholar It is also intended to be accessible to others who do not investigate the biological bases of food and fluid ingestion who may teach aspects of this material or simply wonder about the current state of the field To all readers we present this handbook as a progress report recognizing that the present state of the field is much farther along than it was the last time a handbook was published but mindful of the likelihood that it is not as far along as it will be when the next handbook is prepared This field has witnessed a spectacular accretion of scientific information since the first handbook was published in 1967 During the generation of science between then and the publication of the second handbook in 1990 numerous scientific reports have substantially changed the perspective and informational base of the field

Guide - Fluid & Electrolyte + Hematology & Immunology + Genetics + Medical Surgical Nsg + Anatomy & Physiology - 2021/49 Akash Tiwari, 2021-08-27 Books prepared as per NORCET AIIMS RRB ESIC DSSSB JIPMER PGIMER GMERS COH GUJARAT etc FAQs IMP Topics are Covered Highly Successful Team Chosen Contents Also Available in English Gujarati Hindi **The Comprehensive Respiratory Therapist Exam Review - E-Book** James R. Sills, 2010-04-12 Prepare for success on respiratory therapy credentialing exams Updated to reflect the 2009 National Board of Respiratory Care NBRC content

outlines Sills The Comprehensive Respiratory Therapist s Exam Review 5th Edition helps you review for both entry and advanced level credentialing exams It covers every testable subject providing content review self assessment questions and study hints This title includes additional digital media when purchased in print format For this digital book edition media content is not included Unique Exam Hint boxes point out subjects that are frequently tested helping you study plan your time and improve your test taking skills Self study questions are included at the end of each chapter accompanied by answers and rationales in the back of the book Complexity level codes recall application and analysis help you prepare for questions in the way that is most appropriate e g memorization for recall or synthesis for analysis NBRC content outline coding provides a code for each topic so you can be sure that you have covered every topic that might appear on the exam CRT and RRT level codes speed your review by identifying the individual topics for the CRT and RRT exams as well as topics for both One text now covers both the entry and advanced levels of Respiratory Therapists credentialing exams so you need only one book to prepare for CRT and RRT credentials Updated content reflects the NBRC s new examination content outlines so you get an accurate current review New coverage includes subject areas such as CPAP BiPAP titration during sleep hemodynamic monitoring hyperinflation therapy laryngeal mask airway high frequency ventilation oxygen titration thoracentesis ultrasound and ventilator associated pneumonia protocols An Evolve website includes both CRT and RRT practice exams [Springer Handbook of Experimental Fluid Mechanics](#) Cameron Tropea,Alexander L. Yarin,John F. Foss,2007-10-09 Accompanying DVD ROM contains all chapters of the Springer Handbook Page 3 of cover **Acute Pancreatitis** John Albert Windsor,Savio George Barreto,Anthony Ronald John Phillips,2024-08-06 This book is an accessible evidence based succinct and practical reference for those providing hands on care to patients with acute pancreatitis It represents the most updated results of clinical science and offers the frameworks that underpin the disease and its management The first part of the book presents the latest clinical science and illustrates a clear indication of what is known and what are the gaps in our understanding of the disease The second part provides practical clinical management guidelines The chapters are designed to bring recommendations practical points to facilitate navigation easy access of knowledge and highlights key decision points and options Acute Pancreatitis A Practical Guide for Clinicians is relevant to not only clinicians involved in patient care but medical nursing and dietitian students surgical and gastroenterology researchers companies and agencies The book comprehensively covers acute pancreatitis associating it with local pancreatic complications systemic inflammation and organ failures also providing management algorithms This practical reference book is an introduction to disease management indicating why topics addressed in each chapter are essential providing valuable guidance for day to day treatment by professionals globally **Capillary Fluid Exchange** Joshua Scallan,Ronald J. Korthuis,Virginia Heathorn Huxley,2010 The partition of fluid between the vascular and interstitial compartments is regulated by forces hydrostatic and oncotic operating across the microvascular walls and the surface areas of permeable structures comprising the endothelial

barrier to fluid and solute exchange as well as within the extracellular matrix and lymphatics In addition to its role in the regulation of vascular volume transcapillary fluid filtration also allows for continuous turnover of water bathing tissue cells providing the medium for diffusional flux of oxygen and nutrients required for cellular metabolism and removal of metabolic byproducts Transendothelial volume flow has also been shown to influence vascular smooth muscle tone in arterioles hydraulic conductivity in capillaries and neutrophil transmigration across postcapillary venules while the flow of this filtrate through the interstitial spaces functions to modify the activities of parenchymal resident tissue and metastasizing tumor cells Likewise the flow of lymph which is driven by capillary filtration is important for the transport of immune and tumor cells antigen delivery to lymph nodes and for return of filtered fluid and extravasated proteins to the blood Given this background the aims of this treatise are to summarize our current understanding of the factors involved in the regulation of transcapillary fluid movement how fluid movements across the endothelial barrier and through the interstitium and lymphatic vessels influence cell function and behavior and the pathophysiology of edema formation Table of Contents Fluid Movement Across the Endothelial Barrier The Interstitium The Lymphatic Vasculature Pathophysiology of Edema Formation

Straight A's in Fluids and Electrolytes Lippincott Williams & Wilkins,2007 Straight A s in Fluids and Electrolytes is an excellent review for the NCLEX and for the fluids and electrolytes component of medical surgical nursing courses from the LPN through the BSN level It follows the unique highly visual two column Straight A s format an in depth outline review in the inner column and a quick scanning key points refresher in the outer column Other study aids include Top 10 Lists that save students time before exams Time Out for Teaching tips on patient teaching Go with the Flow algorithms and dozens of illustrations The book and bound in CD ROM contain hundreds of NCLEX style questions including alternate format questions with answers and rationales

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