

Physiology By A K Jain

Essential Physiology for Dental Students offers comprehensive information on human physiology, tailored to the needs of students of dentistry. This new addition to the Dentistry Essentials series helps students gain a deeper understanding of how physiological concepts apply to clinical dental practice. Each chapter outlines an organ system in sufficient detail whilst emphasizing its relevance to clinical dentistry. Written in a student-friendly style, it contextualizes how normal and altered physiology affects dental care and highlights the implications of dental interventions on the body's functioning. Essential Physiology for Dental Students provides readers with complete coverage of: cell physiology; nerve and muscle physiology; the cardiovascular system; the respiratory system; the gastro-intestinal system; the renal system; haematology; endocrinology including the regulation of blood glucose and blood calcium; and the central nervous system. Covers each system in detail, while emphasizing the relevance to dental students Presented using a reader-friendly layout with illustrations and clinical photographs throughout Features interactive MCQs and EMQs and downloadable images on a companion website Essential Physiology for Dental Students is an excellent resource for undergraduate dentistry students, dental hygiene and therapy students, and dental nursing students. It also greatly benefits newly qualified dentists preparing for postgraduate examinations such as MFDS, LDS, ORE, and also the US National Boards.

Vitamin D: Volume One: Biochemistry, Physiology and Diagnostics, Fourth Edition, presents the latest information from international experts in endocrinology, bone biology and human physiology, taking readers through the basic research of vitamin D. This impressive reference presents a comprehensive review of the multifaceted vitamin D. Researchers from all areas will gain insight into how clinical observations and practices can feed back into the research cycle, thus allowing them to develop more targeted genomic and proteomic insights on the mechanisms of disease. Offers a comprehensive reference, ranging from basic bone biology, to biochemistry, to the clinical diagnostic and management implications of vitamin D Saves researchers and clinicians time in quickly accessing the very latest details on the diverse scientific and clinical aspects of Vitamin D, as opposed to searching through thousands of journal articles Targets chemistry, metabolism and circulation, mechanisms of action, mineral and bone homeostasis, human physiology, diagnosis and management, nutrition, sunlight, genetics and vitamin D deficiency Volume II of this collection presents a clinical focus on disorders, analogs, cancer; immunity, inflammation and disease and therapeutic applications

Berne & Levy Physiology has long been respected for its scientifically rigorous approach - one that leads to an in-depth understanding of the body's dynamic processes. The South Asia Edition by Drs. Bruce M. Koeppen and Bruce A.

Stanton, continues this tradition of excellence. With integrated coverage of biophysics and neurophysiology, key experimental observations and examples, and full-color design and artwork, this mid-size text is "just right" for a strong understanding of this complex field. An organ system-based approach clearly describes all of the mechanisms that control and regulate bodily function. Key experimental observations and examples provide a rich understanding of the body's dynamic processes.

This is an exceptional textbook on embryology with 3-dimension illustrations drawn to create a life-like effect in understanding the intricacies of developing human structure. This text focuses on clinical cases with clinical facts. With concise text, the highlights of the book include flowcharts, tables, summary (examination guide), boxes, interesting facts, electron micrographs, clinical cases, special topics, MCQs and viva-voce questions.

The Second Edition Of The Book Provides Even More Application Orientation. All The Chapters Have Been Thoroughly Revised. The Information Has Been Brought Up-To-Date By Incorporating The Latest Concepts And Developments In The Subject. Some Of The Chapters That Were Not Strictly Essential For Routine Practicals Have Been Omitted. The Hematology Section Has Been Thoroughly Updated. The Section On Mammalian Physiology Has Been Further Trimmed As Per The Recommendations Of The Mci. A New Chapter 'Clinical Examination Of The Gi System' Has Been Incorporated.

Existing textbooks on endocrinology do not link theory to the practical world, and thus lead to students asking themselves "What should I do with all this knowledge?" This volume reduces the gap between theoretical knowledge and its practical applications through clinical references that reflect current trends in the management of endocrine disorders. Clinical problems included at the end of some chapters will help medical students to practice diagnosing and treating common hormonal disorders. Each topic also ends with a list of suggested reading that will allow the reader to gain further insights.

This is a compilation strictly according to the Central Council of Homeopathy (CCH) syllabus. It is in a Question Answer format which shall prove to be of utmost benefit to all undergraduate and post-graduate students of homeopathy to face academic examinations much more confidently as this book shall verse them well of how to prepare the answers and also how to format and present it in the answer script. The book will help students to easily handle examinations and they will be able to co-ordinate between time and word limit. The author has consulted all the physiology books presently available in the market in detail in the making of this book; thus, ensuring that no important concept gets missed out. The book is a must-buy for all aspiring homeopathic students.

Physiology of the Eye: An Introduction to the Vegetative Functions, Second Edition discusses the fundamental concept of the operating process of the visual system. The book is comprised 10 chapters that cover the functions and properties of the parts of the ocular system. The text first provides a review of ocular anatomy, and then proceeds to covering parts, including aqueous humor, vitreous body, and lens. The next two chapters deal with various concerns in cornea, such as swelling pressure and metabolism. Chapter 8 discusses the sclera, while Chapter 9 tackles the retina. The last chapter talks about the tears and the lids. The book will be most useful to both optometrists and

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ophthalmologists. Readers who are curious about the operating process of the eye will find this text interesting.

The third edition of this book incorporates thoroughly revised and updated text, organized into twelve sections and arranged in three parts. Part I: General Physiology includes one section having five chapters. Part II: Systemic Physiology has been arranged into ten sections, one on each body system. Part III: Specialized integrated physiology includes one section comprising of seven chapters. . Complete and up-to-date text incorporating recent advances. Illustrated by more than 1100 clear line diagrams. Complemented with numerous tables and flowcharts for quick comprehension. Applied aspects, highlighted in the boxes, have been expanded and updated with recent molecular concepts on pathophysiology, advances in investigations and therapeutic principles. Additional important information has been highlighted as important notes. The above features of this book make it an indispensable text for postgraduates in Physiology. Candidate preparing for PG entrance examination would also find it as an authentic reference source. Complimentary access to full e-book.

Salient Features Inclusion of new features such as learning objectives, timing of key developmental events facilitate to focus on important facts Thorough revision of the chapters on cell division and gametogenesis, extraembryonic membranes, developments of face, nose and palate; cardiovascular system, urogenital system Present applications of embryology in clinical practice Inclusion of new diagrams and improvement in earlier diagrams for easy understanding and reproducibility Addition of an appendix on embryological structures and their derivatives help in quick recall Core competencies prescribed by the MCI are covered and competency codes are included in the text Online Features Complimentary access to online animations, chapter-wise image bank along with the complete e-book

The chapters on molecular genetics, recombinant DNA technology, nutrition, toxins, diabetes mellitus, cancer and AIDS are unique in giving in-depth perception in a concise manner to these highly relevant topics. The medical applications of theoretical facts are clearly pointed out and highlighted at the appropriate places. A questions banks at the end has been put to help the students.

Chapters have been rearranged and often split to work towards one chapter-one lecture model. Learning objectives and glossary of terms in the beginning of every chapter. 56 Videos and animations 120 Multiple choice questions The main aim of the Second South Asia Edition is to meet the needs of the undergraduate medical students and faculty on South Asia by aligning the book to the teaching methods in the subcontinent.

This well-illustrated book is a comprehensive reference on all aspects of clinical retinoscopy. It includes the most appropriate answers to various clinical problems, all of which are explained in a simple and lucid manner.

This is a comprehensive, accessible text that covers the basic principles of Medical Physiology. It is completely up-to-date and includes information on the latest findings in physiology. The text has been beautifully designed and illustrated, and chapters present information in an easy-to-follow and logical style.

Titles in the Pocket Tutor series give practical guidance on subjects that medical students and foundation doctors need help with “on the go”. Their highly affordable price represents great value for those rotating through modular courses or working on attachment. Topics reflect information needs stemming from today’s integrated undergraduate & foundation courses: Common investigations (ECG, Chest X-Ray, etc) Clinical skills (procedures, patient examination, etc) Important and/or complex specialties

in which students receive comparatively little dedicated training (psychiatry, renal medicine) Key Points Highly affordable price and convenient pocket size format – fits in back pocket! Ophthalmology receives little teaching time in the medical curriculum, so students often feel ill prepared to deal with eye problems - which are invariably urgent in nature Descriptions of common disorders enhanced by Clinical Scenarios (Patient presents with...) which help students and trainees to recognise and manage common presenting problems

This classic textbook aims to assist clinicians develop the consultation skills required to elicit a clear history, and the practical skills needed to detect clinical signs of disease. Where possible, the physical basis of clinical signs is explained to aid understanding. Formulation of a differential diagnosis from the information gained is introduced, and the logical initial investigations are included for each system. The first part of the book addresses the general principles of good interaction with patients, from the basics of taking a history and examining, to the use of pattern recognition to identify spot diagnoses. The second part documents the relevant history, examination and investigations for all the major body systems. The third part illustrates the application of these skills to specific clinical situations. The final part covers preparation for assessments of clinical skills and the use of these skills in everyday practice. The book has accompanying videos demonstrating many of the key clinical examination routines as set out in the book. A new editorial team has undertaken a substantial review of the book's contents and with the help of many new authors has radically revised the order and approach of the text. Several new chapters have been created including a chapter on patients with mental disorders; a chapter covering the approach to a deteriorating patient; a chapter on assessment of patients towards the end of life and two new chapters on applying the key clinical skills during assessments and in practice. The structure of the text has been rationalised with careful use of boxes, tables and figures to set out the concepts for maximum clarity.

The new edition of this well-known text brings undergraduates fully up to date with the latest information on human embryology. Beginning with an overview of genetics, the female reproductive system, fertilisation, and early development of the embryo, the following sections each examine the development of a different embryonic system. The genetic and molecular aspects of each system are presented in tabular format and clinical correlations are highlighted in separate boxes to enhance learning. The eleventh edition features new chapters on genetics and molecular biology, the skeletal and muscular system, clinical applications, and embryology ready reckoner. The text is highly illustrated with clinical photographs and tables and each chapter includes case scenarios and review questions for self-assessment. Key points Fully revised, new edition presenting undergraduates with the latest information on human embryology Eleventh edition includes several new chapters Features case scenarios and review questions for self-assessment Previous edition (9789351521181) published in 2014

This new edition of an established textbook for medical students has been thoroughly updated and redesigned to include high yield learning tools and aids. The new edition also includes extensively revised coverage of developmental aspects and physiological variations due to age and gender. In addition, some important topics which usually receive scant attention in textbooks of physiology, such as ergonomics, the pineal gland and space physiology, have been given comprehensive treatment in new chapters. Most topics include self assessment material.

This books documents the salient characters of the tectonic evolution of the Indian subcontinent. It showcases the well investigated subcontinent of Gondwana. The book is linked to an updated geological and tectonic map of this region on 1:12,000,000 in scale. The Indian

subcontinent displays almost uninterrupted and unique the geological history since about Eo-Archean (~3800 Ma) to recent, with the development of many Proterozoic deformed and metamorphosed fold belts around Archean nuclei, and enormously thick undeformed platform deposits. After their stabilization during late Proterozoic, the subcontinent underwent Paleozoic rifting and deposition of coal-bearing thick sequences, followed by enormously-thick outpouring of Deccan volcanics as a consequence of huge mantle plume. The youngest event in its evolution is the Cenozoic Himalayan Orogenic Mountains, spanning the area between Nanga Parbat and Namcha Barwah; a part of which extends both in Pakistan and Myanmar.

Thermoregulation, Part I: From Basic Neuroscience to Clinical Neurology, Volume 154, not only reviews how body temperature regulation changes in neurological diseases, but also how this aspect affects the course and outcomes of each disease. Other sections of the volume review three therapeutic approaches that are aimed at manipulating body temperature, including induced hypothermia, induced hyperthermia and antipyretic therapy. The book is comprised of nine sections across two volumes, five dealing with the basic aspects of body temperature regulation and four dealing with the clinical aspects. Basic sections cover the Thermoregulation system, Thermoreceptors, Thermoeffectors, Neural pathways, and Thermoregulation as a homeostatic function. In addition, the book covers the physiology and neuroanatomy of the thermoregulation system and provides descriptions of how the regulation of body temperature intervenes with other physiological functions (such as sleep, osmoregulation, and immunity), stress, exercise and aging. Basic sections serve as an introduction to the four clinical sections: Body Temperature, Clinical Significance, Abnormal Body Temperature, Thermoregulation in Neurological Disease and Therapeutic Interventions. Presents a clear, logical pathway from the fundamental physiology of thermoregulation, through neurobiology, to clinical applications and disease Enables researchers and clinicians to better understand the value of temperature measurement in disease and the use of temperature as a therapy Integrates content from a broad field of research, including topics on the molecular physiology of temperature receptors, to the management of accidental hypothermia

This book has been specifically designed with the needs of the student in mind. Lengthy explanations are avoided and the material is presented in a concise form that not only makes it easy to understand but also easy to remember and reproduce, which is precisely what the student needs. Difficult topics are presented with elegant simplicity and brevity without compromising on the core concepts. These include membrane electrophysiology, electromyography, hemostatic balance, electrocardiography, cardiac output, hemodynamics, respiratory mechanics, counter-current multiplier system, body fluid and electrolyte balance, gastric acid secretion, calcitropic hormones, fetoplacental unit, memory and learning, synaptic transmission and sensorimotor mechanisms. Two volume set - a complete guide to medical physiology for undergraduate medical students. Covers both clinical and applied physiology of all anatomical systems. Includes numerous photographs and invaluable learning tools.

The book presents an exhaustive and thorough exposition of the fundamentals of medical physiology. The exposition is divided systematically into three sections covering General Physiology, Systemic Physiology and Specialized Integrative Physiology. Each section begins with a brief Introduction highlighting the topics covered. The subject is then explained in a graded manner with a large number of tables, flowcharts and diagrams to aid understanding. The level of exposition in the book is sufficiently detailed for it to serve as a useful text for undergraduate courses as well as for PG entrance examinations About the Author : - Indu Khurana,

Download Free Physiology By A K Jain

Associate Professor, Department of Physiology, Postgraduate Institute of Medical Sciences, Rohtak, Haryana, India.

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