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Gk pal textbook of medical physiology pdf

Synopsis: Physiology is emerging as the central subject in medical science as it provides the knowledge and basis of medical practice. This present edition is thoroughly revised and all major concepts and advances in physiology have been thoroughly incorporated in the text. The second edition of the book will fulfil the requirements and aspirations of all our readers. The present edition is thoroughly revised in the light of new MCI 2019 guidelines for undergraduate medical curriculum. Learning Objectives of each chapter has been totally revised to make them more specific, divided into 'Must Know' and 'Desirable to Know' categories. Applied aspects are highlighted in 'Application Boxes', and Clinical Applications (patient and disease related concepts) are highlighted in 'Clinical Boxes'. Addition of new chapters, mainly to integrate more applied and clinical topics, based on the new curriculum of MCI, 2019 and to facilitate early clinical exposure. New chapters added are on lymphatic system and lymphatic circulation, aviation and space physiology, blood pressure variability and baroreflex sensitivity, cyanosis, blood glucose homeostasis and pathophysiology of diabetes mellitus, electroretinography and visual-evoked potential, early clinical exposure and principles of energy metabolism. Early Clinical Exposure in Physiology has been described at the end as a separate chapter. Over 1400 schematic diagrams and Graphs. 25 new flowcharts and contribution of 18 more scientists have been added to this edition. More than 2500 Multiple Choice Questions are added and given at the end of each chapter that will help in preparing for objective type tests, quiz competition, and PG Entrance/NEET Exams. ADDITIONAL FEATURES: All major concepts and advances in physiology have been thoroughly incorporated in the text. Key concepts have been made more structured with more point-wise (bulleted) description. Important and useful facts are emphasized as Important Note(s). All relevant and significant mechanisms are described with the help of easily drawable schematic diagrams and graphs. Important and complex concepts are simplified and summarized in the form of Flowcharts. Essential data and information are presented in a structured tabular format. All cellular and molecular mechanisms are supplemented with appropriate histological pictures. Substantial contribution of great scientists in the concerned field has been recognized as Scientists Contributed, which will be inspiring to all the budding physiologists. All topics end with a Chapter Summary having two parts: Key Concepts depicting central theme and Must Read/Know depicting all probable Long and Short Questions and Viva Questions for final exams. Thus, this is a Comprehensive Textbook that has incorporated all the requirements of a medical student imparting knowledge and skill in the subject, acquiring all the ingredients needed to write the examination, and kindling the aspiration to progress in the profession. "About this title" may belong to another edition of this title. © 1996-2015, Amazon.com, Inc. or its affiliates Description Table of Contents Product Details Click on the cover image above to read some pages of this book! This two volume set is a complete guide to medical physiology for undergraduate medical students.Beginning with a general overview of the subject the following chapters each provide in depth discussion on the physiology of each anatomical system. Each section covers both clinical and applied physiology with topics enhanced by numerous photographs and diagrams.The book features the following invaluable learning tools:Learning objective - defined at the start of each chapter Application boxes - key points of applied physiology highlighted in green boxes Clinical boxes - core concepts of related diseases and patient management highlighted in pink boxes Important notes - miscellaneous information that may be asked in viva voce examinations Chapter summary - each chapter ends with a two-part summary outlining key concepts of the topic and listing possible long and short questions, and viva questions that may be asked in examinations 'Scientist contributed' boxes - explain historical links - highlighted in orange boxes Volume 1 Section-1: General Physiology * Defining the Role of Physiology in Modern Medicine * Functional Organization of Human Body * Principles of Homeostasis * Cellular Organization and Intercellular Connections * Physiology of Genetics and Apoptosis * Transport Across the Cell Membrane * Membrane Potential * Body Fluids Section-2: Blood and Immunity * Composition and Functions of Blood and Plasma Proteins * Bone Marrow and Hemopoiesis * Red Blood Cells * Erythropoiesis * Destruction of Red Blood Cells * Hemoglobin and Blood Indices * Pathophysiology of Anemia and Polycythemia * Blood Groups and Physiological Basis of Blood Transfusion * White Blood Cells * Thymus, Lymphoid Tissues, and Lymph * Immunity * Platelets and Their Role in Hemostasis * Blood Coagulation Section-3: Nerve and Muscle Part A: Nerve * Structure and Functions of Neurons * Nerve Potentials * Properties, Classification and Applied Aspects of Nerve Fibers Part B: Neuromuscular Junction * Neuromuscular Transmission Part C: Muscles * Structure of Skeletal Muscle: Physiological Aspects * Mechanism of Skeletal Muscle Contraction * Skeletal Muscle: Properties, Fiber Types, and Applied Aspects * Smooth Muscle and Cardiac Muscle Section-4: Autonomic Nervous System * Functional Organization of Autonomic Nervous System * Sympathetic System * Parasympathetic System * Control of Autonomic Functions and Applied Aspects * Autonomic Function Tests * Heart Rate Variability Section-5: Gastrointestinal System Part A: Introduction to GI System * Functional Organization of GI System and Principles of GI Regulations * Gastrointestinal Hormones Part B: GI Secretions * Principles of GI Secretion and Secretion of Saliva * Gastric Secretion * Pancreatic Secretion * Physiology of Liver, Liver Function Tests, and Pathophysiology of Jaundice * Biliary Secretion * Intestinal Secretion * Secretion of Large Intestine Part C: GI Motility * Introduction to GI Motility * Chewing and Deglutition * Esophageal Motility * Gastric Motility * Small Intestinal Motility * Motility of Large Intestine Part D: Digestion and Absorption * Principles of Digestion and Absorption Section-6: Endocrine Physiology * Introduction to Endocrinology * 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of Contraception Section-8: Renal System * General Introduction and Functional Anatomy of Kidney * Renal Blood Flow * Glomerular Filtration * Tubular Functions * Mechanisms of Urine Concentration and Dilution * Water Excretion, Diuresis, and Diuretics * Acidification of Urine * Kidney Function Tests and Pathophysiology of Renal Failure * Physiology of Micturition, and Bladder Dysfunctions Volume 2 Section-9: Cardiovascular System Part A: General Introduction * Organization of Cardiovascular System Part B: Heart * Functional Anatomy of Heart, Cardiac Muscle, Conducting System, and Cardiac Innervation * Properties of Cardiac Muscle * Electrophysiology of the Heart * Electrocardiogram * Cardiac Cycle * Cardiac Output * Heart Rate and Arterial Pulse Part C: Circulation * Principles of Hemodynamics * Arterial System * Venous System * Capillary Circulation * Regulation of Blood Pressure * Integrated Regulation of Cardiovascular Functions * Regional Circulations * Fetal Circulation Part D: 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Adaptations, and Visual Reflexes * Color Vision * Movements of the Eye Part B: Hearing * Functional Anatomy and Functions of the Ear * Auditory Pathways * Mechanism of Hearing * Hearing Defects and Hearing Tests Part C: Smell and Taste * Physiology of Smell * Physiology of Taste Section-13: Integrative Physiology * Structure and Functions of the Skin * Regulation of Body Temperature and Acclimatization to Hot and Cold Environments * Physiology of Exercise and Sports Science * Principles of Acid-Base Homeostasis * Regulation of Volume, Composition and Osmolality of Body Fluid Compartments * Physiology of Growth and Development * Physiology of Nutrition * Physiology of Aging and Oxidative Stress, Prevention of Aging and Physiology of Yoga Index ISBN: 9789386056979 ISBN-10: 9386056976 Audience: Tertiary; University or College Format: Paperback Language: English Number Of Pages: 1338 Published: 31st October 2016 Country of Publication: IN Dimensions (cm): 26.67 x 20.96 x 5.72 Weight (kg): 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