

NERVOUS SYSTEM APP

MODULE 5

NERVOUS SYSTEM

→ **CENTRAL**
- BRAIN
- SPINAL CORD

→ **PERIPHERAL**
- NERVES
- GANGLIA

FUNCTIONAL ORGANIZATION:

SENSORY INPUT

SOMATIC SENSORY
VISCERAL SENSORY

MOTOR OUTPUT

SOMATIC MOTOR
AUTONOMIC MOTOR

SYMPATHIC NS

V.S. PARASYMPATHETIC

QUESTIONS:

1. WHICH DIVISION OF YOUR NERVOUS SYSTEM CAN YOU CONTROL?
- WHAT IS THAT DIVISION CALLED?
2. WHICH DIVISION OF YOUR NS IS NOT UNDER YOUR CONTROL? (examples)
- WHAT IS THAT DIVISION CALLED?
3. WHAT IS THE DIFFERENCE BETWEEN THE SYMPATHETIC & PARASYMPATHETIC NS?
4. WHAT ARE THE PARTS OF A NEURON?
5. WHAT IS AN ACTION POTENTIAL?
- WHERE ARE THEY GENERATED?
- WHERE DOES ACTION POTENTIAL GO FROM THERE?
6. WHY IS MYELIN IMPORTANT TO THE FUNCTIONING OF NEURONS?
(BRIEFLY, HOW DOES IT INVOLVE MYELIN?)
7. DESCRIBE THE ROLE OF EACH OF THE THREE PARTS OF THE NEURAL FEEDBACK LOOP.

CNS - BRAIN - "most complicated, mysterious, sensitive organs on Earth"
PN.S - SPINAL CORD
NERVES
GANGLIA
→ (to the side) → anything with "nerves"
→ ALL nervous tissue outside of CNS



Stuff we are "AWARE" of
→ PROPRICEPTION
→ SENSATION
→ going "IN" THE CNS
"LEAVING" CNS
→ going to EFFECTORS
"BODY"
→ SOMATIC MOTOR
- SKELETAL MUSCLE
- VOLUNTARILY MOVABLE
AUTONOMIC MOTOR
→ INAWARE OF (don't have to think about)
- HEART PUMP, BREATHING
→ CARDIAC MUSCLE, SMOOTH MUSCLE, GLANDS

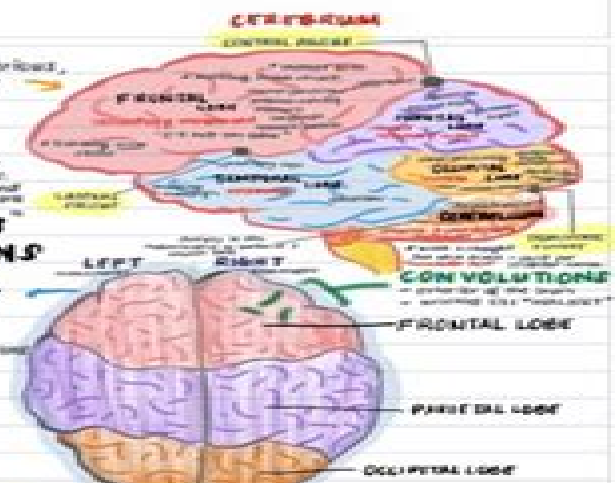
SOMATIC
- PROPRICEPTION
- FINE MOVEMENT
VISCERAL
- INTERNAL ORGANS
- BLOOD VESSEL



① ACTION POTENTIALS ARE NERVE SIGNALS
- GENERATED IN THE AXON HILLOCK, FROM THERE,
- THEY TRAVEL DOWN THE AXON (UP & DOWN BECAUSE OF MYELIN SHEATH),
TOWARDS THE SYMPATHETIC END BULBS.

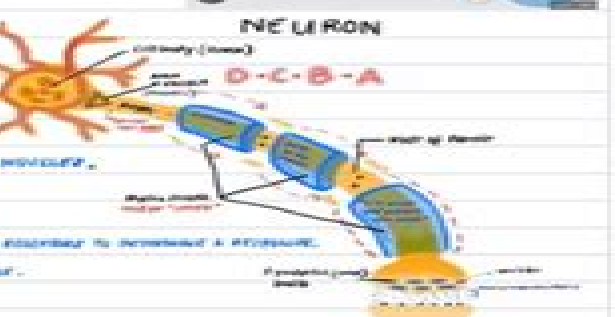
② MYELIN IS AN INSULATING LAYER THAT SURROUNDS THE AXON. IT IS VITAL FOR THE CONDUCTION OF ACTION POTENTIALS (ELECTRICAL IMPULSES) ALONG AXONAL TREES. DENDRITE AND EFFERENT TRANSMISSION OF ACTION POTENTIALS IS NECESSARY FOR THE FUNCTIONALITY OF MUSCLES. IT FACILITATES SMOOTH COMMUNICATION OF NERVE IMPULSES FROM THE CNS TO THE MUSCLES.

③ NEURAL FEEDBACK LOOP: VITAL FOR BODY'S HOMEOSTASIS!
- > RECEPTOR: DETECTS CHANGE IN PHYSICAL/ CHEMICAL ENVIRONMENT.
- > CONTROL CENTER (AUTONOMIC CNS): RECEIVES INFORMATION FROM RECEPTOR TO DETERMINE A RESPONSE.
- > EFFECTOR: EXECUTES A RESPONSE TO RESTORE BODY'S HOMEOSTASIS.
(E.G. CONVICTION (MOVING) AS BODY'S TEMPERATURE REGULATOR)



CEREBRAL CORTEX
- HIGH ORDER THINKING
- COGNITIVE FUNCTIONS
- LANGUAGE
- MEMORY
- EMOTION
- PERSONALITY
- CONSCIOUSNESS
- VOLUNTARILY MOVABLE
- CARDIAC MUSCLE, SMOOTH MUSCLE, GLANDS

ANSWERS:
① SOMATIC NERVOUS SYSTEM
② AUTONOMIC NERVOUS SYSTEM



SUMMARY:

THE NERVOUS SYSTEM IS A COMPLEX NETWORK OF NEURONS THAT FACILITATE COMMUNICATION AND COORDINATION WITHIN THE BODY. ESPECIALLY, INTEGRATING DIFFERENT PARTS OF THE BODY INTO ONE COHERENT AND FUNCTIONAL WHOLE. IT PLAYS A FUNDAMENTAL ROLE IN CONTROLLING BODY FUNCTIONS, RESPONDING TO STIMULI, AND MAINTAINING HOMEOSTASIS.

Anatomy Physiology Chapter 7 Notes Nervous System

Leslie S. Hall, Gregory Richards



Anatomy Physiology Chapter 7 Notes Nervous System:

Notes Medical Science Optional Subject - UPSC Mains Exam Mocktime Publication, 101-01-01 Medical Science Optional UPSC Mains Notes

Anatomy and Physiology for Veterinary Technicians and Nurses Robin Sturtz, Lori Asprea, 2012-10-09 Anatomy and Physiology for Veterinary Technicians and Nurses A Clinical Approach is a comprehensive resource on the anatomy and physiology of dogs and cats with comparisons to horses birds and ruminants Organized by body system with a comparative approach the book follows a unique format by addressing anatomy separately from physiology for clarity and improved comprehension Each anatomy chapter has a corresponding physiology chapter complete with illustrations charts and boxes to promote understanding Written specifically for veterinary technicians and nurses the book applies anatomy and physiology to clinical practice with case examples demonstrating clinical relevance The figures from the book additional questions and answers labeling quizzes teaching PowerPoints and a dissection video are available online at www.wiley.com/go/sturtz This introduction to body system analysis of normal structure and function is a must have resource for students of veterinary technology and nursing as well as a useful quick review for the busy professional

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Moini,2019-01-03 Written with health professions students in mind the Third Edition of Anatomy and Physiology for Health Professionals offers an engaging approachable and comprehensive overview of human anatomy and physiology The Third Edition features a total of six multifaceted Units which build upon an understanding of basic knowledge take readers through intermediate subjects and finally delve into complex topics that stimulate critical thinking Heavily revised with updated content throughout chapters include useful features such as Common Abbreviations Medical Terminology the Metric System and more Students will want to take advantage of the many resources available to reinforce learning including Test Your Understanding questions that regularly assess comprehension flash cards for self study an interactive eBook with more than 20 animations and interactive and printable Lab Exercises and Case Studies CUET PG Medical Laboratory Technology

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Science and Disorders Leonard L. LaPointe,2018-05-24 A beautifully illustrated atlas that provides robust speech language pathology and audiology learning tools Atlas of Neuroanatomy for Communication Science and Disorders Second Edition is based on the award winning textbook Atlas of Anatomy and the work of Michael Schuenke Erik Schulte and Udo Schumacher The updated text reflects advances in neuroscience and invaluable insights from Leonard L LaPointe one of the foremost teachers and practitioners in the field of brain based communication disorders today The book features beautiful illustrations from the recently published second edition of the Schuenke atlases and new content on cognition higher cortical function the spinal cord structural damage and clinic pathological effects Divided into seven chapters the book is presented in a logical framework starting with a concise illustrated overview of anatomy of the brain and nervous system This approach ensures mastery of introductory concepts before readers move on to more advanced material The text covers traditional acquired speech language conditions such as aphasia and neuromotor speech disorders cognition and swallowing disorders communication impairments caused by traumatic brain injury multisystem blast injuries and degenerative disorders of the nervous system Key Highlights More than 450 exquisitely rendered full color illustrations delineate basic anatomy and physiology multiple visual perspectives and impacted and interrelated body structures Descriptive legends and text bridge the gap between neuroanatomic principles and clinical applications Tables charts and concise text clearly detail the role of anatomical structures in normal communication and what happens when they dysfunction This remarkable atlas is essential reading for graduate and undergraduate students in speech language pathology audiology and communication sciences It will also greatly benefit clinicians who need to understand the crucial connection between neuroanatomy and functional

systems when treating people with communication disorders It should be on the bookshelf of every practicing clinician or student who deals with brain based disorders The Central Nervous System of Vertebrates Rudolf Nieuwenhuys,Hans J. ten Donkelaar,Charles Nicholson,2014-11-14 This comprehensive reference is clearly destined to become the definitive anatomical basis for all neuroscience research The book provides a complete overview and comparison of the structural organization of all vertebrate groups ranging from amphioxus and lamprey through fishes amphibians and birds to mammals The large specialised section of the work devoted to the CNS of the various vertebrate groups is preceded by introductory chapters on neurons cell masses fibre tracts morphogenesis methodology and techniques Although focusing on structure the authors provide functional correlations throughout This monumental work is and will remain unique the only source of such brilliant illustrations at both the macroscopic and microscopic levels Anatomy & Physiology for Speech, Language, and Hearing, Sixth Edition J. Anthony Seikel,David G. Drumright,Daniel J. Hudock,2019-11-22 Anatomy Physiology for Speech Language and Hearing Sixth Edition provides a solid foundation in anatomical and physiological principles relevant to communication sciences and disorders This bestselling textbook beloved by instructors and students integrates clinical information with everyday experiences to reveal how anatomy and physiology relate to the speech language and hearing systems Combining comprehensive coverage with abundant beautiful full color illustrations and a strong practical focus the text makes complex material approachable even for students with little or no background in anatomy and physiology The text includes numerous full color anatomical images to help students form a clear accurate understanding of the classical framework of the speech language and hearing systems Photographs provide a real life look at the body parts and functions Use these images as reference for accuracy in describing body systems parts and processes New to the Sixth Edition Updated and expanded information on the physiology of swallowing that includes discussion of orofacial myofunctional disorders and other swallowing dysfunction arising from physical etiologies More physiology content including an introduction to the effects of pathology on communication within each of the physical systems of communication Many new photographs of specimens have been added with a focus on a clear and accurate understanding of the classical framework of the speech language and hearing systems Clinical Notes boxes link anatomy and physiology with disorders seen by speech language pathologists and audiologists to provide real world clinical applications for students Disclaimer Please note that ancillary content such as documents audio and video etc may not be included as published in the original print version of this book **Class 10 Biology MCQ (Multiple Choice Questions)** Arshad Iqbal, The Class 10 Biology Multiple Choice Questions MCQ Quiz with Answers PDF 10th Grade Biology MCQ PDF Download Quiz Questions Chapter 1 10 Practice Tests with Answer Key Biology Questions Bank MCQs Notes includes revision guide for problem solving with hundreds of solved MCQs Class 10 Biology MCQ with Answers PDF book covers basic concepts analytical and practical assessment tests Class 10 Biology MCQ PDF book helps to practice test questions from exam prep notes The Class 10 Biology MCQs with Answers

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Survival Guide for Anatomy & Physiology Kevin T. Patton, 2013-10-15 Don't be overwhelmed by the perils and pitfalls of learning A P Survival Guide for Anatomy Physiology 2nd Edition provides a quick and easy overview of tips strategies and key A P content to make studying more productive more fun and less time consuming A perfect on the go reference this handy guide is packed with colorful cartoons A P visuals illustrated tables and keen insights to help you prepare for even the most dangerous labs and exams Joining this excellent adventure are two new survival skills chapters plus strategies for using digital resources effectively Written by renowned author and educator Kevin Patton this book makes it easier to survive and conquer A P Plan a Learning Strategy section helps you study more effectively by showing how to tailor your learning activities to suit your learning style Part 2 Maps Charts and Shortcuts breaks the subject of A P into six sections so you can quickly find the information you need in an easy to read and understand format Mnemonic devices and memorable analogies help you remember A P concepts with ease Specific test taking strategies help you prepare for and pass exams Instructions on how to read your A P textbook lead to greater comprehension Dozens of tables make it easy to access the A P facts you need to remember on the skeletal system muscles nerves circulatory respiratory and digestive systems and more NEW Know the Language chapter focuses on strategies for mastering medical terminology UPDATED information includes more on digital based learning strategies more examples and additional study tips to develop skills in mastering pronunciation dealing with test anxiety using flashcards and more New analogies and tips help you make deeper connections between challenging A P concepts and the real world including What's a Gradient Bone Names Have Meaning Mnemonics to Help You Learn Bone Structures and more NEW What to Do If You Get Lost chapter offers advice on getting back on track from Kevin Patton

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Visualizing Human Biology Kathleen A. Ireland, 2010-10-04 Medical professionals will be able to connect the science of biology to their own lives through the stunning visuals in Visualizing Human Biology The important concepts of human biology are presented as they relate to the world we live in The role of the human in the environment is stressed throughout ensuring that topics such as evolution ecology and chemistry are introduced in a non threatening and logical fashion Illustrations and visualization features are help make the concepts easier to understand Medical professionals will appreciate this visual and concise approach

Biology of Sensory Systems C. U. M. Smith, 2008-11-20 Since publication of the first edition huge developments have taken place in sensory biology research and new insights have been provided in particular by molecular biology These show the similarities in the molecular architecture and in the physiology of sensory cells across species and across sensory modality and often indicate a common ancestry dating back over half a billion years Biology of Sensory Systems has thus been completely revised and takes a molecular evolutionary and comparative approach providing an overview of sensory systems in vertebrates invertebrates and prokaryotes with a strong focus on human senses Written by a renowned author with extensive teaching experience the book covers in six parts the general features of sensory systems the mechanosenses the chemosenses the senses which detect electromagnetic radiation other sensory systems including pain thermosensitivity and some of the minority senses and finally provides an outline and discussion of philosophical implications New in this edition Greater emphasis on molecular biology and intracellular mechanisms New chapter on genomics and sensory systems Sections on TRP channels synaptic transmission evolution of nervous systems arachnid mechanosensitive sensilla and photoreceptors electroreception in the Monotremata language and the FOXP2 gene mirror neurons and the molecular biology of pain Updated passages on human olfaction and gustation Over four hundred illustrations boxes containing supplementary material and self assessment questions and a full bibliography at the end of each part make Biology of Sensory Systems essential reading for undergraduate students of biology zoology animal physiology neuroscience anatomy and physiological psychology The book is also suitable for postgraduate students in more specialised courses such as vision sciences optometry neurophysiology neuropathology developmental biology Praise from the reviews of the first edition An excellent advanced undergraduate postgraduate textbook ASLIB BOOK GUIDE The emphasis on comparative biology and evolution is one of the distinguishing features of this self contained book this is an informative and thought provoking text TIMES HIGHER EDUCATIONAL SUPPLEMENT

Flying Foxes Leslie S. Hall, Gregory Richards, 2000 Sometimes kept as family pets flying foxes are much beloved in Australia This work covers issues such as descriptions of Australia s 13 species of flying foxes and blossom bats their physiology of flight ecology diet and behaviour and management

of populations Cranial Intelligence Ged Sumner, Steve Haines, 2010 This new and important textbook demystifies the biodynamic approach to craniosacral therapy and shows how and why it can be so effective at bringing about a natural realignment towards optimal health The authors describe how to respond appropriately to each client's system and how to support deep felt and lasting change in patients *Comprehensive Radiographic Pathology* Ronald L. Eisenberg, Nancy M. Johnson, 2003 Offering a foundation in the basic principles of pathology this book focuses on the radiographic appearances of diseases and injuries that are most likely to be diagnosed with medical imaging It offers everything you need to know about pathology imaging including disease processes radiographic appearance and treatment Updated and revised this edition provides hundreds of illustrations and current information to help you meet the challenge of today's radiography Avian Physiology Mr. Rohit Manglik, 2024-03-10 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels Medical Terminology Systems Barbara A Gyls, Mary Ellen Wedding, 2017-03-20 You'll begin by learning the parts of word roots combining forms suffixes and prefixes Then use your understanding of word parts to learn medical terminology Mnemonic devices and engaging interactive activities make word building fun and easy ensuring you retain the information you need for success **Decoding Neural Circuit Structure and Function** Arzu Çelik, Mathias F. Wernet, 2017-07-24 This book offers representative examples from fly and mouse models to illustrate the ongoing success of the synergistic state of the art strategy focusing on the ways it enhances our understanding of sensory processing The authors focus on sensory systems vision olfaction which are particularly powerful models for probing the development connectivity and function of neural circuits to answer this question How do individual nerve cells functionally cooperate to guide behavioral responses Two genetically tractable species mice and flies together significantly further our understanding of these processes Current efforts focus on integrating knowledge gained from three interrelated fields of research 1 understanding how the fates of different cell types are specified during development 2 revealing the synaptic connections between identified cell types connectomics using high resolution three dimensional circuit anatomy and 3 causal testing of how identified circuit elements contribute to visual perception and behavior The Executive Brain Elkhonon Goldberg, 2001 Made up of fascinating histories and anecdotes Goldberg's book offers a panorama of state of the art ideas and advances in cognitive neuroscience to show the importance of the human brain's frontal lobes 3 halftones Illustrations graphs

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Table of Contents Anatomy Physiology Chapter 7 Notes Nervous System

1. Understanding the eBook Anatomy Physiology Chapter 7 Notes Nervous System
 - The Rise of Digital Reading Anatomy Physiology Chapter 7 Notes Nervous System
 - Advantages of eBooks Over Traditional Books
2. Identifying Anatomy Physiology Chapter 7 Notes Nervous System
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Anatomy Physiology Chapter 7 Notes Nervous System
 - User-Friendly Interface
4. Exploring eBook Recommendations from Anatomy Physiology Chapter 7 Notes Nervous System
 - Personalized Recommendations
 - Anatomy Physiology Chapter 7 Notes Nervous System User Reviews and Ratings
 - Anatomy Physiology Chapter 7 Notes Nervous System and Bestseller Lists
5. Accessing Anatomy Physiology Chapter 7 Notes Nervous System Free and Paid eBooks
 - Anatomy Physiology Chapter 7 Notes Nervous System Public Domain eBooks
 - Anatomy Physiology Chapter 7 Notes Nervous System eBook Subscription Services
 - Anatomy Physiology Chapter 7 Notes Nervous System Budget-Friendly Options

6. Navigating Anatomy Physiology Chapter 7 Notes Nervous System eBook Formats
 - ePub, PDF, MOBI, and More
 - Anatomy Physiology Chapter 7 Notes Nervous System Compatibility with Devices
 - Anatomy Physiology Chapter 7 Notes Nervous System Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Anatomy Physiology Chapter 7 Notes Nervous System
 - Highlighting and Note-Taking Anatomy Physiology Chapter 7 Notes Nervous System
 - Interactive Elements Anatomy Physiology Chapter 7 Notes Nervous System
8. Staying Engaged with Anatomy Physiology Chapter 7 Notes Nervous System
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Anatomy Physiology Chapter 7 Notes Nervous System
9. Balancing eBooks and Physical Books Anatomy Physiology Chapter 7 Notes Nervous System
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Anatomy Physiology Chapter 7 Notes Nervous System
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Anatomy Physiology Chapter 7 Notes Nervous System
 - Setting Reading Goals Anatomy Physiology Chapter 7 Notes Nervous System
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Anatomy Physiology Chapter 7 Notes Nervous System
 - Fact-Checking eBook Content of Anatomy Physiology Chapter 7 Notes Nervous System
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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