

Chapter 35 – The Nervous System

1. Describe the structural and functional subdivisions of the nervous system. Describe the three parts of a reflex, distinguishing the three types of neurons that may be involved in the reaction.

The central nervous system consists of the brain and spinal cord. There are three types of neurons involved in reflexes: sensory neurons, motor neurons, and internal neurons. Reflexes consist of three parts: sensory input, integration, and motor output.

2. Describe the structures and functions of neurons and myelin sheaths.

Neurons are cells specialized in transmitting signals and are the functional units of the nervous system. The myelin sheath is a wrapped axon that strengthens cell insulation and speeds up signal transduction.

3. Define a resting potential and explain how it is created.

Resting potential is the voltage across the plasma membrane. At rest, the neuron's plasma membrane has a potential energy called the membrane potential.

4. Explain how an action potential is produced and the resting membrane potential restored.

A stimulus changes the permeability of a portion of the membrane, allowing ions to pass through it and altering the membrane tension. Action potentials change the membrane voltage from the resting potential to the maximum level and back to the resting potential.

5. Explain (a) how an action potential propagates itself along a neuron, (b) why action potentials move in only one direction, and (c) how action potentials relay different intensities of information.

(a) Action potentials propagate along neurons in a unidirectional chain reaction.

(b) Na^+ channels could not be opened for exit.

(c) with different sodium and potassium levels.

6. Compare the structures, functions, and locations of electrical and chemical synapses.

Nervous System Section 35 Assessment Answers

**Darcy Ann Umphred, Rolando T.
Lazaro, Margaret Roller, Gordon Burton**

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Neurological Rehabilitation - E-Book Darcy Ann Umphred,Rolando T. Lazaro,Margaret Roller,Gordon Burton,2013-08-07 Using a problem solving approach based on clinical evidence Neurological Rehabilitation 6th Edition covers the therapeutic management of people with functional movement limitations and quality of life issues following a neurological event It reviews basic theory and covers the latest screening and diagnostic tests new treatments and interventions commonly used in today s clinical practice This edition includes the latest advances in neuroscience adding new chapters on neuroimaging and clinical tools such as virtual reality robotics and gaming Written by respected clinician and physical therapy expert Darcy Umphred this classic neurology text provides problem solving strategies that are key to individualized effective care UNIQUE Emerging topics are covered in detail including chapters such as Movement Development Across the Lifespan Health and Wellness The Beginning of the Paradigm Documentation and Cardiopulmonary Interactions UNIQUE A section on neurological problems accompanying specific system problems includes hot topics such as poor vision pelvic floor dysfunction and pain A problem solving approach helps you apply your knowledge to examinations evaluations prognoses and intervention strategies Evidence based research sets up best practices covering topics such as the theory of neurologic rehabilitation screening and diagnostic tests treatments and interventions and the patient s psychosocial concerns Information Case studies use real world examples to promote problem solving skills Non traditional approaches to neurological interventions in the Alternative and Complementary Therapies chapter include the movement approach energy approach and physical body system approaches therapies Terminology adheres to the best practices of the APTA as well as

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Nuclear Science Abstracts ,1967 Brain Tumors Paul M. Zeltzer,2004 Provides practical information to guide decision making for people having a primary or metastatic brain tumor

Oxford Textbook of Musculoskeletal Medicine Michael Hutson,Adam Ward,2016 This all in one companion to the field of musculoskeletal medicine describes basic concepts and offers practical guidelines for diagnosis and treatment and contains models of care which assist understanding of basic concepts

Index Medicus ,2004 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings

The Phlebotomy Textbook Susan King Strasinger,Marjorie Schaub Di Lorenzo,2019-02-25 Rely on this comprehensive resource to master the techniques you need to safely obtain quality specimens You ll understand all the hows and whys that lead to success in this rapidly changing field Inside you ll find the up to date coverage of routine procedures and their complications as well specialized procedures quality and infection control state of the art equipment medical terminology ethical and legal issues body systems and related diagnostic laboratory tests

Guide - Nervous System - 2021/43 Akash Tiwari,2021-08-27

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The Asperger's Answer Book Susan Ashley Ph.D.,2006-10-01 Answering all the questions you may have The Asperger s Answer Book helps parents easily understand their child s diagnosis and develop a plan for success It is currently estimated that over 500 000 families struggle with Asperger s Syndrome a highly prevalent yet difficult to diagnose disorder that affects hundreds of thousands of children and adults In a time when parents are overwhelmed with confusing and often conflicting information The Asperger s Answer Book provides them with clear and confident counsel Written by an experienced child psychologist The Asperger s Answer Book covers such topics as Is it autism or is it Asperger s Getting your child evaluated Emotional intelligence Routines and rituals Motor skills Sensory sensitivity Growing up with Asperger s Syndrome Written in an easy to read Q A format The Asperger s Answer Book helps parents understand and accept their child s illness and develop a plan for success

Occupational Health and Industrial Medicine ,1995 **Oxford Textbook of Neuromuscular Disorders** David Hilton-Jones,Martin R. Turner,2014-05-01 Part of the Oxford Textbooks in Clinical Neurology series the Oxford Textbook of Neuromuscular Disorders covers the scientific basis clinical diagnosis and treatment of neuromuscular disorders with a

particular focus on the most clinically relevant disorders The book is organized into seven sections starting with the general approach to the patient with neuromuscular disorders and then focusing on specific neuromuscular conditions affecting the peripheral nervous system from its origins at the spinal cord anterior horn on its outward course to their effector muscles and the inbound sensory pathways Chapters on specific neuromuscular conditions are illustrated with typical case histories and their presenting features allowing readers to put rarer conditions into their clinical context more easily The concurrent online version allows access to the full content of the textbook contains links from the references to primary research journal articles allows full text searches and provides access to figures and tables that can be downloaded to PowerPoint This textbook will serve as a useful reference for neurologists and specialist trainees in neurology neuroscientists neurophysiologists and other healthcare professionals

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