

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

"LEAVING" CNS

→ going to EFFECTORS

"BODY"

SOMATIC MOTOR
- SKELETAL MUSCLE
- VOLUNTARILY MOVABLE

AUTONOMIC MOTOR

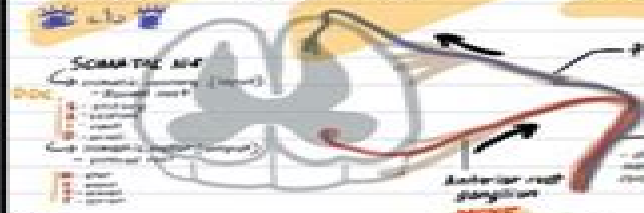
→ INAWARE OF (don't have to think about)
- HEART RATE, BREATHING
→ CARDIAC MUSCLE, smooth muscle, glands.

SOMATIC NERVE

- PROPRICEPTION
- FINE MOVEMENT

VISCERAL NERVE

- INTERNAL ORGANS
- BLOOD VESSEL



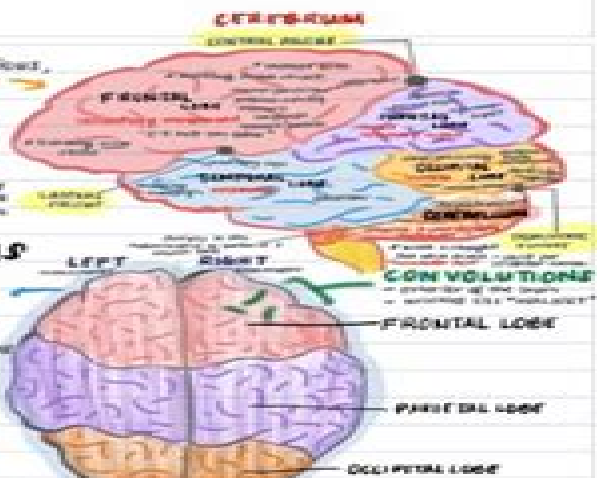
① ACTION POTENTIALS ARE NERVE SIGNALS

- GENERATED IN THE AXON HILLOCK, FROM THERE,
- THEY TRAVEL DOWN THE AXON (UP & DOWN BECAUSE OF MYELIN SHEATH), TOWARDS THE SYNAPTIC END BULB.

② MYELIN IS AN INSULATING LAYER THAT SURROUNDS THE AXON. IT IS VITAL FOR THE CONDUCTION OF ACTION POTENTIALS (ELECTRICAL IMPULSES) ALONG AXONAL TREES. DUE TO THE EFFICIENT TRANSMISSION OF ACTION POTENTIALS IN MYELIN, THE FUNCTIONALITY OF NEURONS IS ENHANCED. IT FACILITATES SMOOTH COMMUNICATION OF NERVE IMPULSES FROM THE ONE TO THE NEXT.

③ NEURAL FEEDBACK LOOP: VITAL FOR BODY HOMEOSTASIS!

- RECEPTOR: DETECTS CHANGE IN STIMULUS/ENVIRONMENTAL CHANGES.
- CONTROL CENTER (AUTONOMIC NERVE): RECEIVES INFORMATION FROM RECEPTOR TO DETERMINE A RESPONSE.
- EFFECTOR: EXECUTES A RESPONSE TO RESTORE BODY HOMEOSTASIS.
- (E.G. SHIVERING (WARMING UP BODY) TEMPERATURE REGULATOR)



CONVOLUTIONS

FRONTAL LOBE

PARIETAL LOBE

OCCIPITAL LOBE

LONGITUDINAL FURROW

ANSWER:

① SOMATIC NERVOUS SYSTEM

② AUTONOMIC NERVOUS SYSTEM

③ SYMPATHETIC = FIGHT OR FLIGHT

PARASYMPATHETIC = REST & DIGEST

④ NEURON

D-C-B-A

⑤ NEURON

D-C-B-A

⑥ NEURON

D-C-B-A

⑦ NEURON

D-C-B-A

⑧ NEURON

D-C-B-A

⑨ NEURON

D-C-B-A

⑩ NEURON

D-C-B-A

⑪ NEURON

D-C-B-A

⑫ NEURON

D-C-B-A

⑬ NEURON

D-C-B-A

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 Notes Nervous System

Hiroshi Shibasaki, Mark Hallett



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Notes on books Longmans, Green and co,1870 The Integrated Nervous System Walter Hendelman, M.D.,Christopher R. Skinner,Peter Humphreys,2011-05-10 The First Textbook to Take an Integrative Approach to Neurological Diagnosis This introductory full color text teaches students and practitioners how to combine neurological history and physical examination so they can localize pathologies within the nervous system and determine appropriate treatment It provides a wealth of illustrations that emphasize the functioning nervous system in addition to an invaluable DVD for further exploration and access to a state of the art website with additional materials that are updated periodically Give Practitioners the Confidence to Differentiate Diagnose and Build Treatment Plans Provides a wealth of illustrations that emphasize the functioning nervous system Neuroanatomical drawings related to case studies Informative tables with relevant clinical data Radiographic images EEGS microscopic images and other diagnostic tools Includes an invaluable DVD for further exploration User friendly worksheets to provide a proven methodology for evaluation All color illustrations from the book Flash animations of various pathways reflexes and circuits Neuroimaging primer to boost understanding of CT and MRI sequences Supplementary e cases and diagnostic images A wealth of references for self guided study Offers access to a state of the art website All of the features on the DVD Additional supplementary materials to be added periodically Demystifies Neurological Problem Solving Section I Covers the Basics of Neurological Problem Solving Provides a full synopsis of the nervous system Explains key aspects of the neurological examination Delves into clinical problem solving Includes a Fail Safe Localization Etiology Checklist Covers lesions caused by trauma muscle diseases genetic and degenerative diseases vascular problems drugs and toxins infections and autoimmune disorders Section II Applies the Basics to Clinical Cases Presents full case examinations of a nine member fictional family Demonstrates clinical data extraction definition of main clinical points relevant neuroanatomy and the localization process Covers a wide range of disease processes including spinal cord syndromes and traumas vascular injury and seizures Details autoimmune neoplastic degenerative and genetic disorders Differentiates between various causes of seizures stroke and Parkinsonism Provides complete case summaries treatment management and outcomes *Fundamentals of Applied Pathophysiology for Paramedics* Ian Peate,Simon Sawyer,2024-03-11 An essential introduction to pathophysiology for paramedics Paramedics are specialists in out of hospital emergency healthcare they are also capable of operating as generalist clinicians whose work is indispensable in a variety of healthcare settings The response to the COVID 19 pandemic especially has revealed the versatility of the paramedic workforce Contemporary paramedic practice continues to break new ground as the workforce is called upon to undertake critical roles in support of the wider healthcare sector However to perform their crucial work paramedics require a strong understanding of pathophysiology to enable them to make rapid and effective clinical decisions Fundamentals of Applied Pathophysiology for Paramedics is a comprehensive introduction to this subject for aspiring early

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objects are key to understanding object oriented technology look around right now and you ll find many examples of real world objects your dog your desk your television set your bicycle real world objects share two characteristics they all have

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using jdo to learn more the jdo learning tools are a small but comprehensive set of programs that you can use for several purposes you can use them as an introduction to jdo you can use them to verify what you have learned about t jdo most importantly you can use them to learn more the first five jdo learning tools are discussed in this

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objects a typical java program creates many objects which as you know interact by invoking methods through these object interactions a program can carry out various tasks such as implementing a gui running an animation or sending and receiving information over a network

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about this book java data objects jdo specifies a transparent persistence service for java objects the specification describes a general framework for storing and retrieving the persistent state of java objects the jsr 12 expert group defined jdo using the

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table of content next page enhancement adds code to the application data classes to integrate them with jdo as a result of enhancement the enhanced class implements the persistencecapable interface when jdo acts on an application data object it acts on it as a persistencecapable object

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object fields are accessed by their name you must use a name that is unambiguous you may use a simple name for a field within its own class for example we can add a statement within the rectangle class that prints the width and height system out println width and height are width height in this case width and height are

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using transient application data objects and objects of classes that are not persistence capable for parameter values is not portable across jdo implementations declaring the query s variables the query interface provides a method to declare

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in order to provide persistent services for the application s data objects jdo must manage the objects within a java virtual machine jvm jdo manages some objects and does not manage other objects if jdo manages an object it manages its persistent state or its transactional state or both

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managers using a persistence manager the application can control the life cycle and caching of application data objects it can get the identity object for a persistent application data object and it can later fetch the persistent object that corresponds to an identity object finally the persistermanager interface has factory methods

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