

NERVOUS SYSTEM A&P

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

PNNS

BRAIN - "most complicated, mysterious, sensitive organs on Earth"

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 CONTROLLED

AUTONOMIC MOTOR

→ INAWARE OF (don't have to think about)

→ HEART, LUNGS, BREATHING

→ CARDIAC MUSCLE, smooth muscle, glands

SOMATIC

visceral

visceral

visceral

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⑤ ACTION POTENTIALS ARE NERVE SIGNALS

- GENERATED IN THE AXON HILLOCK, FROM THERE,

- THEY TRAVEL DOWN THE AXON (1/2 m/s) BECAUSE OF MYELIN SHEATH,

TOWARDS THE SYNAPTIC END BULB.

⑥ MYELIN IS AN INSULATING LAYER THAT SURROUNDS

PROTECTION FOR THE AXON, IT IS VITAL FOR THE CONDUCTION

OF ACTION POTENTIALS (ELECTRICAL IMPULSES)

ALONG AXONAL FIBERS. 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.

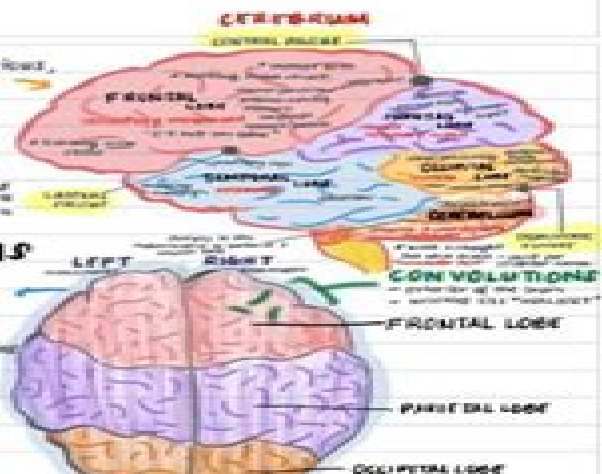
⑦ NEURAL FEEDBACK LOOP: VITAL FOR BODY HOMEOSTASIS!

→ 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 HOMEOSTASIS.

(E.G. SHIVERING (WARMING UP BODY) TEMPERATURE REGULATOR)



ANSWERS:

① SOMATIC NERVOUS SYSTEM

② AUTONOMIC NERVOUS SYSTEM

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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 Of The Brain Lecture Notes

Victor M. Corman



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