

Chapter 11, Fundamentals of the Nervous System and Nervous Tissue - Study Guide

Read pages 386- 394; 407-408

1. Explain the function of the nervous system.
 - a. Master control, communication and coordinating system between the different body structures and system
2. Explain what is reflected by the activity of the nervous system.
 - a. Every activity, thought and emotion are a reflection of the nervous system.
3. Describe what type of signal the nervous system utilizes.
 - a. Electro-chemical signals
4. Identify another system that performs a similar function.
 - a. Endocrine system produces hormones
5. Identify the two different cell groups that compose the nervous system.
 - a. Neurons (nerve cells) & neuroglial cells
6. Describe the basic function of the neuron.
 - a. **Neurons**: transmit nerve impulses/signals, highly specific electrical currents
7. Briefly describe the basic function of neuroglial/glia cells.
 - a. **Neuroglial cells**: aid and protect the neurons
8. Identify the two basic divisions of the nervous system.
 - a. Central nervous system
 - b. Peripheral nervous system
9. Identify the two structures that compose the central nervous system (CNS).
 - a. Brain & spinal cord
10. Explain the functions of the nerves that compose the peripheral nervous system (PNS).
 - a. Nerves connect all the different body parts to the CNS
11. Identify the three general functions of the nervous system.
 - a. Sensory, motor, integrative
12. Describe the sensory division of the nervous system.
 - a. **Sensory division (afferent)**: Receptors at the distal end of the peripheral nerves gather information and turn it into nerve impulses and send them to the CNS
13. Describe the motor division of the nervous system.
 - a. **Motor division (efferent)**: Carries nerve impulses from the CNS to the effectors (muscles or glands) so that they can respond
14. Describe the integrative division of the nervous system.
 - a. **Integrative division (associative)**: sensory impulses are integrated into the brain as perceptions. Followed by conscious or subconscious analysis and decisions.
 - i. Leads to motor functions by the effectors
 - ii. In charge of cognitive thinking, memory and problem solving
 - iii. Located between the sensory and motor divisions
15. Describe the difference between efferent and afferent nerves and nerve impulses.
 - a. **Afferent**: going TOWARDS CNS
 - b. **Efferent**: going AWAY from the CNS
16. Describe and explain the function of a **nerve receptor**.
 - a. Gather information and turn it into nerve impulses
17. Explain where motor (efferent) nerve impulses originate and where they go.
 - a. Originate from the CNS and go to the effectors (muscles or glands)
18. Identify the two different systems of the motor division.
 - a. Somatic and Autonomic
19. Describe the differences between the somatic and autonomic nervous systems.
 - a. **Somatic**: directs structures under our **conscious** control (skeletal muscles)
 - b. **Autonomic (autonomous)**: directs control over **unconscious** control (**effectors**: involuntary/smooth glands/muscles)

Study Guide For Central System

Neil Messer



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