

# Download free Chapter 7 the nervous system .pdf

the nervous system consists of two divisions central nervous system cns is the integration and command center of the body peripheral nervous system pns represents the conduit between the cns and the body it is further subdivided into the somatic nervous system sns and the autonomic nervous system ans the nervous system is the human organ system that coordinates all of the body's voluntary and involuntary actions by transmitting electrical signals to and from different parts of the body your nervous system is your body's command center it's made up of your brain spinal cord and nerves your nervous system works by sending messages or electrical signals between your brain and all the other parts of your body these signals tell you to breathe move speak and see for example introduction to neurons and glia how the structure of a neuron allows it to receive and transmit information how do you know where you are right now your ability to perceive your surroundings to see hear and smell what's around you depends on your nervous system in biology the nervous system is the highly complex part of an animal that coordinates its actions and sensory information by transmitting signals to and from different parts of its body the nervous system detects environmental changes that impact the body then works in tandem with the endocrine system to respond to such events the nervous system can be divided into two major regions the central and peripheral nervous systems the central nervous system cns is the brain and spinal cord and the peripheral nervous system pns is everything else figure 12 2 the brain is contained within the cranial cavity of the skull and the spinal cord is contained within the

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brain and spinal cord are part of the central nervous system the central nervous system processes information and relays a response back to parts of the body through the peripheral nervous system

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