

Nervous System Flashcards PDF

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What is the main function of the nervous system?

The main function of the nervous system is to coordinate and control the body's activities by transmitting signals between different parts of the body.

What are the two main divisions of the nervous system?

The two main divisions of the nervous system are the central nervous system (CNS) and the peripheral nervous system (PNS).

What does the central nervous system consist of?

The central nervous system consists of the brain and spinal cord.

What is the role of the peripheral nervous system?

The peripheral nervous system connects the central nervous system to the rest of the body, including limbs and organs.

What are neurons?

Neurons are the basic building blocks of the nervous system that transmit information throughout the body.

What are the three main types of neurons?

The three main types of neurons are sensory neurons, motor neurons, and interneurons.

What is the function of sensory neurons?

Sensory neurons carry signals from sensory receptors to the central nervous system.

What is the function of motor neurons?

Motor neurons transmit signals from the central nervous system to muscles and glands.

What is the function of interneurons?

Interneurons connect sensory and motor neurons and process information within the central nervous system.

What is a synapse?

A synapse is the junction between two neurons where information is transmitted from one neuron to another.

What is the role of neurotransmitters?

Neurotransmitters are chemicals that transmit signals across a synapse from one neuron to another.

What is the function of the brainstem?

The brainstem controls basic life functions such as breathing, heartbeat, and blood pressure.

What are the main parts of the brain?

The main parts of the brain are the cerebrum, cerebellum, and brainstem.

What is the function of the cerebrum?

The cerebrum is responsible for higher brain functions such as thought, action, and emotion.

What is the function of the cerebellum?

The cerebellum coordinates voluntary movements and maintains posture and balance.

What is the role of the spinal cord?

The spinal cord transmits signals between the brain and the rest of the body and also coordinates reflexes.

What is a reflex?

A reflex is an automatic response to a stimulus that does not require conscious thought.

What is the autonomic nervous system?

The autonomic nervous system regulates involuntary bodily functions such as heart rate and digestion.

What are the two divisions of the autonomic nervous system?

The two divisions of the autonomic nervous system are the sympathetic and parasympathetic nervous systems.

What is the function of the sympathetic nervous system?

The sympathetic nervous system prepares the body for 'fight or flight' responses during stressful situations.

What is the function of the parasympathetic nervous system?

The parasympathetic nervous system promotes 'rest and digest' activities when the body is at rest.