

# Psych 140 chap 2



**ASSIGN  
BUSTER**

Dendrites are branching extensions of neurons. An axon is the extension of a neuron that carries messages away from the cell body.

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The speed at which a neural impulse travels is increased when the axon is in case by Myelin sheath.

A synapse is junction between a sending neuron and receiving neuron. The chemical messengers released into the spatial junctions between neurons are called Neurotransmitters.

The two major divisions of the nervous system are the central and the \_\_\_\_\_ nervous system. Peripheral.

Which brain structure receives information from all the senses except smell? Thalamus.

Which baseball size structure at the rear of the brain stem cells many functions including helping you to judge time and to discriminate sounds and textures? Cerebellum.

The cerebral cortex is the covering layer of the Cerebrum.

The corpus callosum is a wide band of axon fibers that Transmits information between the cerebral hemispheres.

In a clinical trial of brain computer interface with paralyzed humans, a 25 year old man constructed shapes on a computer screen by activating neurons in his Motor cortex.

The brain structure that provides a major link between the nervous system and endocrine system is the Hypothalamus.

The ancient Greek philosopher Plato located in the mind in the Head.

Increasing excitatory signals above the threshold for neural activation will not affect the intensity of an action potential. This indicates that a neuron's reaction is An all or none response.

The auditory hallucinations experienced by people with schizophrenia are most closely linked with the activation of areas in their Temporal lobes.

The neural Center in the limbic system that process is explicit memories for storage is called the Hippocampus.

Deneration of the myelin sheath results in Multiple sclerosis.

The ability to simultaneously copy

different figures with the right and left hand is most characteristic of whose \_\_\_\_\_ has been cut  
Corpus Callosum  
Along with the basal ganglia, the \_\_\_\_\_ enables nonverbal learning and skill memory  
cerebellum  
The visual cortex is activated when blind people read Braille. This best illustrates  
plasticity  
The release of cortisol into the bloodstream is most likely to increase blood sugar  
Schizophrenia is most closely linked with an oversupply of the neurotransmitter  
dopamine  
Thanks to the release of carbon isotopes in nuclear weapons tests, researchers have been able to detect the process of neurogenesis in the  
hippocampus  
Magnetic resonance imaging uses magnetic fields and \_\_\_\_\_ to produce computer generated images of soft tissue  
radio waves  
During open brain surgery, Adams left ankle twist whenever the surgeon electrically stimulated a specific area within Adams  
Right frontal lobe  
Mathematical computations by a computer are faster than you quickest mathematical computations because the top speed of neural impulses about \_\_\_\_\_ times slower than the speed of electricity in a computer  
3 million  
Peoples failure to recognize themselves in a mirror is most likely to be associated with damage to the  
Right cerebral hemisphere  
You come home one night to find a burglar in your house. Your heart starts racing and you begin to perspire. These physical reactions are triggered by the  
Sympathetic nervous system  
The release of of epinephrine into the bloodstream is most likely to increase blood sugar  
Jose is just played along bruising football game but feels little fatigue or discomfort. His lack of pain is most likely caused by the release of  
Endorphins  
If a professor accused you of cheating on a test your adrenal glands would probably release \_\_\_\_\_ into your bloodstream  
Epinephrine  
Aaron consistently exhibits a knee-jerk response without having any sensations of the taps on his knees. Aarons

experience is most indicative of a severed spinal cord. To detect Mr. Ziegler's loss of brain tissue from a degenerative disease, his physician is most likely to request that he receive an MRI scan. You feel the pain of a sprained ankle when \_\_\_\_\_ relays messages from your ankle to your central nervous system. Sensory neurons. The part of your peripheral nervous system that controls the movements of your mouth and jaw that you eat is called the somatic nervous system. In a tragic diving accident, Andrew damaged his spinal cord. As a result, his legs were paralyzed. Andrew's injury was located in his central nervous system. Demonstrate that brain stimulation can make a rat violently aggressive, a neuroscientist should electrically stimulate the rat's amygdala. Jason lost his sense of taste due to a tumor that caused damage to a structure located on top of his brain stem. This structure is known as the thalamus. Which part of your brain is essential for receiving information that you are moving your legs? Somatosensory cortex. Dr. Wolski conducts research on the potential relationship between neurotransmitter deficiencies and mood states. Dr. Wolski's research focus is most characteristic of the biological perspective.