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## **Chapter 2: Neuroscience and Behavior**

1.	Psychologists who specialize in considering the ways in which the biological structures and
	functions of the body affect behavior are known as
	A. genetic psychologists
	B. biopsychologists
	C. evolutionary psychologists
	D. clinical neuropsychologists
2.	Alison has developed an interest in the ways in which the biological structures and functions of
	the body affect behavior. She will most likely become a(n):
	A. genetic psychologist.
	B. behavioral neuroscientist.
	C. evolutionary psychologist.
	D. clinical neuropsychologist.
3.	The basic elements of the nervous system are called:
	A. axons.
	B. glial cells.
	C. neurons.
	D. neurotransmitters.

4.	As many asneurons throughout the body are involved in the control of behaviour.
	A. 1 billion
	B. 1 trillion
	C. 5 million
	D. 50 million
5.	Neurons are physically held in place by
	A. axons
	B. glial cells
	C. dendrites
	D. myelin cells
6.	Which of the following is NOT one of the functions of glial cells?
	A. They nourish nerve cells.
	B. They communicate messages within the nervous system.
	C. They help repair damage that might occur to neurons.
	D. They provide nourishment to neurons.
7.	A cluster of fibers at one end of a neuron that receives messages from other neurons is called:
	A. axon.
	B. terminal button.
	C. glial fiber.
	D. dendrite.

8.	An axon is a(n):
	A. neuron's cell body.
	B. cluster of fibers at one end of a neuron.
	C. support cell in the nervous system.
	D. long, slim, tubelike structure extending from a neuron.
9.	Which of the following structures is especially important for carrying messages received by the
	dendrites to other neurons?
	A. Neurotransmitter
	B. Synapse C. Axon
	D. Glial cell
10.	Terminal buttons are found at the end of:
	A. neurotransmitters.
	B. dendrites.
	C. axons.
	D. glial cells.

11.	Which of the following sequences correctly arranges nervous system structures from the most				
	general to the most specific?				
	A. Neuron → axon → terminal button				
	B. Neuron → terminal button → axon				
	C. Axon $\rightarrow$ terminal button $\rightarrow$ neuron				
	D. Axon $\rightarrow$ neuron $\rightarrow$ terminal button				
12.	Dendrite is to axon whatis to				
	A. receiving; sending				
	B. sending; receiving				
	C. reuptake; action potential				
	D. action potential; reuptake				
13.	Which of the following sequences accurately reflects the route followed by nerve impulses when				
	one neuron communicates with another?				
	A. Dandrika arasa aralli hasha				
	A. Dendrite → axon → cell body				
	B. Dendrite $\rightarrow$ cell body $\rightarrow$ axon				
	C. Cell body $\rightarrow$ axon $\rightarrow$ dendrite				
	D. Axon $\rightarrow$ dendrite $\rightarrow$ cell body				

14.	Electrical wires are generally protected by a tube of plastic. A similar insulating function is
	performed in the nervous system by the:
	A. myelin sheath.
	B. glial cells.
	C. terminal buttons.
	D. synapse.
15.	is a protective coat of fat and protein that wraps around the axon.
	A. Myelin sheath
	B. Glial cell
	C. Dendrite
	D. Synapse
16.	You cannot fire a gun softly, or flush a toilet halfway. Like an action potential, gun fire and a
	toilet's flush follow thelaw.
	A. incremental transformation
	B. graded action
	C. all-or-none
	D. intensity of stimulus

17.	The rule that neurons are either on or off is known as thelaw.
	A. intensity of stimulus
	B. graded action
	C. all-or-none
	D. incremental transformational
18.	The state in which there is a negative electrical charge of about -70 millivolts within a neuron is
	known as thestate.
	A. triggering
	B. terminal
	C. optimum
	D. resting
19.	Regarding action potentials, which of the following statements is TRUE?
	A. As the impulse travels along the axon, the movement of ions causes a change in charge from
	positive to neutral in successive sections of the axon.
	B. The action potential moves from one end of the axon to the other like a flame moving along a fuse.
	C. After the impulse has passed through a particular section of the axon, negative ions are
	pumped out of that section, and its charge returns to positive while the action potential
	continues to move along the axon.
	D. Just after an action potential has passed through a section of the axon, a neuron can fire again
	immediately if it receives appropriate stimulation.

20.	As an action potential occurs, the neuron's electrical charge:
	A. changes from negative to neutral.
	B. changes from positive to neutral.
	C. changes from negative to positive.
	D. changes from positive to negative.
21.	are specialized neurons that fire not only when a person enacts a particular behavior, but
	also when a person simply observes another individual carrying out the same behavior.
	A. Dhaw was a larget a was a way.
	A. Pharyngeal motorneuron
	B. Mirror neurons
	C. Ventral cord motor neuron
	D. Amphid neurons
22.	Regarding mirror neurons, which of the following statements is ACCURATE?
	A. Mirror neurons are involved in face recognition and language acquisition, but not in empathy.
	B. Mirror neurons are involved in empathy and face recognition, but not in language acquisition.
	C. Mirror neurons are involved in empathy, language acquisition, and face recognition.
	D. Mirror neurons are involved in empathy and language acquisition, but not in face recognition.
23.	A synapse is a(n):
	A. chemical.
	B. signal.
	C. joint.
	D. gap.

24.	is the space between two neurons where the axon of a sending neuron communicates with			
	the dendrites of a receiving neuron by using chemical messages.			
	A. Synapse			
	B. Terminal button			
	C. Axon			
	D. Cell body			
25.	Which of the following statements regarding inhibitory messages is TRUE?			
	A. Inhibitory messages always increase the likelihood that a receiving neuron will fire.			
	B. Inhibitory messages decrease the likelihood that a receiving neuron will fire.			
	C. The dendrites of a neuron cannot receive both excitatory and inhibitory messages simultaneously.			
	D. Inhibitory messages make it more likely that an action potential will travel down its axon.			
26.	The reabsorption of neurotransmitters by a terminal button is termed as:			
	A. recycling.			
	B. reassertion.			
	C. reuptake.			
	D. reuse.			

## 27. Which neurotransmitter is described INCORRECTLY?

A. Acetylcholine-transmits messages related to skeletal muscles

B. GABA—an excitatory neurotransmitter inhibited by alcohol or tranquilizers C. Serotonin-helps regulate sleep and mood D. Glutamate-plays a role in memory 28. The neurotransmitter dopamine is involved in: A. the brain's effort to deal with pain. B. Alzheimer's disease. C. the regulation of sleep, eating, mood, and pain. D. movement, attention, and learning. 29. Which neurotransmitter is CORRECTLY matched with a psychological function? A. Relief of pain-glutamate B. Regulates mood-acetylcholine C. Facilitates learning-dopamine D. Contributes to memory-serotonin 30. Which disorder is CORRECTLY paired with an associated neurotransmitter? A. Parkinson's disease: dopamine B. Depression: glutamate C. Schizophrenia: serotonin D. Alzheimer's disease: endorphins

31.	Inhibitory is to excitatory whatis to
	A. glutamate; GABA
	B. glutamate; acetylcholine
	C. GABA; glutamate
	D. endorphins; GABA
32.	Which expression below most closely approximates the number of neural connections in the
	brain?
	A. 10 quadrillion
	B. 1 million
	C. 1 billion
	D. 1 trillion
33.	The nervous system is divided into the and the nervous systems.
	A primary accordant
	A. primary; secondary
	B. somatic; autonomic
	C. sympathetic; parasympathetic
	D. central; peripheral
34.	The brain and the spinal cord constitute thenervous system.
	A. central
	B. peripheral
	C. extraneous
	D. parasympathetic

35.	5is an automatic, involuntary response to an incoming stimulus.			
	A. Action potential			
	B. Intuition			
	C. Instinct			
	D. Reflex			
36.	Theis the main means for transmitting messages between the brain and the body.			
	A. cortex			
	B. medulla			
	C. axon			
	D. spinal cord			
37.	Which of the following is TRUE of the spinal cord's control of behavior?			
	A. The spinal cord cannot control any behaviors without the help of the brain.			
	B. The spinal cord is not involved in reflexes.			
	C. The spinal cord can control some simple reflexes without the brain's help.			
	D. The spinal cord can control relatively complex behavior without the brain's help.			

38.	The central nervous system is composed of The peripheral nervous system comprises					
	A. the somatic and autonomic nervous systems; the sympathetic and parasympathetic nervous systems					
	B. the somatic and autonomic nervous systems; the brain and the spinal cord					
	C. the sympathetic and parasympathetic nervous systems; the somatic and autonomic nervous systems					
	D. the brain and the spinal cord; the somatic and autonomic nervous systems					
39.	Sensory is to motor whatis to					
	A. efferent; afferent					
	B. afferent; efferent					
	C. afferent; interneuron					
	D. interneuron; efferent					
40.	are neurons that connect sensory and motor neurons, carrying messages between the two.					
	A. Mirror neurons					
	B. Amphid neurons					
	C. Interneurons					
	D. Autoneurons					

41.	The two major divisions of the peripheral nervous system are the	and	divisions.
	A. somatic; autonomic		
	B. sympathetic; parasympathetic		
	C. afferent; efferent		
	D. sensory; motor		
42.	is the part of the peripheral nervous system that specializes in t	he control	of voluntary
	movements and the communication of information to and from the se	nse organs	<b>S</b> .
	A. Somatic division		
	B. Sympathetic division		
	C. Parasympathetic division		
	D. Autonomic division		
43.	Somatic is to autonomic what is to		
	A. involuntary; voluntary		
	B. voluntary; involuntary		
	C. excitation; rest		
	D. rest; excitation		

44.	The part of the autonomic division of the nervous system that acts to prepare the body for action in stressful situations, engaging all the organism's resources to respond to a threat is known as the			
	A. somatic division			
	B. sympathetic division			
	C. parasympathetic division			
	D. apathetic division			
45.	The "fight-or-flight" response is associated with thedivision.			
	A. somatic			
	B. sympathetic			
	C. parasympathetic			
	D. apathetic			
46.	The part of the autonomic division of the nervous system that acts to calm the body after an			
	emergency has ended is known as thedivision.			
	A. somatic			
	B. sympathetic			
	C. parasympathetic			
	D. apathetic			

47.	Thedivision also directs the body to store energy for use in emergencies.			
	A. somatic			
	B. sympathetic			
	C. parasympathetic			
	D. apathetic			
48.	Which of the following situations is most likely to involve the action of the parasympathetic			
	nervous system?			
	A. Brooke's finger accidentally grazes the hot iron; she immediately jerks her hand away.			
	B. After mistaking her roommate for a thief, Callum relaxes with a glass of water.			
	C. Walking toward her car in a deserted parking lot one night, Danica is surprised by a strange			
	man appearing from nowhere.			
	D. Peyton is preparing to go to bed and is alarmed to see a stranger at her window.			
49.	With respect to its potential basis in nervous system activity, "voodoo death" has been attributed			
	to:			
	A. an overactive sympathetic nervous system.			
	B. an overactive parasympathetic nervous system.			
	C. the cessation of sympathetic nervous system responses.			
	D. an understimulated central nervous system.			

50.	Izzy sees a leopard in her backyard. Her pupils are dilated and her heart is pounding; her		
	breathing is shallow and rapid. Hernervous system is active.		
	A. parasympathetic		
	B. sympathetic		
	C. apathetic		
	D. somatic		
51.	Which of the following terms best describes the organization of the nervous system today?		
	A. Linear		
	B. Recursive		
	C. Hierarchical		
	D. Random		
52.	The branch of psychology that seeks to identify behavior patterns that are a result of our genetic		
	inheritance from our ancestors is known as		
	A. social psychology		
	B. health psychology		
	C. clinical psychology		
	D. evolutionary psychology		

53.	Evolutionary psychologists have spawned a new and increasingly influential field:			
	A. social psychology.			
	B. health psychology.			
	C. molecular genetics.			
	D. behavioral genetics.			
54.	The study of the effects of heredity on how people conduct themselves is known as			
	A. behavioral genetics			
	B. classical genetics			
	C. development genetics			
	D. molecular genetics			
55.	Dr. Schilling is investigating the potential genetic basis of antisocial personality disorder by			
	examining the relative prevalence of the disorder among either identical or fraternal twins, raised			
	either together or in different families. Dr. Schilling is best described as a			
	A. behavioral geneticist			
	B. classical geneticist			
	C. development geneticist			
	D. molecular geneticist			

56.	Which of the following statements best expresses the relationship between the nervous system			
	and the endocrine system?			
	A. They operate entirely independently.			
	B. The endocrine system is part of the central nervous system.			
	C. The endocrine system influences and is influenced by the central nervous system.			
	D. The central nervous system is one part of the endocrine system.			
57.	A key component of the endocrine system is the tinygland, which is found near–and			
	regulated by-thein the brain.			
	A. adrenal; hippocampus			
	B. pituitary; hippocampus			
	C. adrenal; hypothalamus			
	D. pituitary; hypothalamus			
58.	Thegland is a major component of the endocrine system which secretes hormones that			
	control growth and other parts of the endocrine system.			
	A. esophageal			
	B. apocrine			
	C. parotid			
	D. pituitary			

59.	Thegland has sometimes been called the "master gland" because it controls the			
	functioning of the rest of the endocrine system.			
	A. pituitary			
	B. esophageal			
	C. apocrine			
	D. parotid			
60.	The hormone oxytocin has been implicated in each of the following behaviors EXCEPT the:			
	A. urge to nurse newborn infants.			
B. desire to seek or respond to potential sexual partners.      C. development of trust in others.				
			D. tendency to produce violent, dangerous behavior.	
61.	Which of the following glands or structures is CORRECTLY matched with the hormone it			
	produces?			
	A. Pineal gland; oxytocin			
	B. Pancreas; insulin			
	C. Medulla; melatonin			
	D. Pituitary gland; aldosterone			

62. Which of the following hormones is CORRECTLY matched with its function?	
	A. Aldosterone - regulates daily rhythms
B. Erythropoietin - regulates the sodium and potassium balance in the blood	
	C. Adipokines - regulate the production of red blood cells
	D. Parathyroid hormone - increases blood calcium
63.	Which of the following statements is TRUE regarding hormone replacement therapy as a
	treatment for menopausal symptoms?
	A. It is used less frequently now than in the past.
	B. It is the only treatment that does not have any side effects.
	C. Its benefits outweigh its risks.
	D. It has become increasingly popular.
64.	Which of the following is NOT a brain scanning technique?
	A. Electroencephalogram (EEG)
	B. Electromyogram (EMG)
	C. Positron emission tomography (PET)
	D. Transcranial magnetic stimulation (TMS)
65.	Which brain imaging technique below is CORRECTLY matched with its description?
	A. EEG–records the brain's electrical activity with electrodes
	B. PET–causes a momentary interruption of the brain's electrical activity
	C. fMRI-traces biochemical activity in the brain
	D. TMS-produces a graph of electrical wave patterns

66. Which brain imaging technique below is INCORRECTLY matched with its diagnostic u	
	A. EEG–facilitates the diagnosis of epilepsy and learning disorders
	B. PET-may help identify brain tumors
	C. fMRI-improves diagnosis of strokes and multiple sclerosis
	D. TMS-facilitates the diagnosis of nervous system disorders such as Alzheimer's disease
67.	Brent is taking part in an experiment in the cognitive neuroscience lab on campus. Silently, he
	reads rapid sequences of words flashed on a computer screen. Simultaneously, the electrical
	activity of his brain is recorded through skull electrodes. The brain scanning technique used in
	this study is:
	A. fMRI.
	B. PET.
	C. EEG.
	D. TMS.
68.	The newest brain scanning technique which is popularly used is:
	A. PET.
	B. EEG.
	C. TMS.
	D. fMRI.

69.	Marisol is trying a new treatment for severe depression. Brief magnetic pulses are sent through
	her brain. Marisol is undergoing:
	A. optogenetic therapy.
	B. transcranial magnetic stimulation.
	C. positron emission tomography.
	D. functional magnetic resonance imaging.
70.	Soon, it may be possible to view the activity of individual neural circuits, due to the emerging field of:
	A. optogenetics.
	B. synaptic reflectance.
	C. neurogenetics.
	D. transcranial magnetic stimulation.
71.	Which of the following structures is NOT part of the brain's central core?
	A. Hippocampus
	B. Cerebellum
	C. Pons
	D. Reticular formation

72.	The hindbrain includes each of the following structures EXCEPT the:
	A. medulla.
	B. thalamus.
	C. pons.
	D. cerebellum.
73.	The part of the brain closest to the spinal cord is the; it is important for such functions as
	A coroballum: maintaining hady tomporature
	A. cerebellum; maintaining body temperature     B. cerebellum; heart rate and respiration
	·
	C. medulla; maintaining body temperature
	D. medulla; heart rate and respiration
74.	The pons serves to:
	A. regulate arousal.
	B. relay sensory information to the brain's association areas.
	C. integrate movement between the left and right halves of the body.
	D. consolidate memories.
75.	The part of the brain that controls bodily balance is the
	A. hypothalamus
	B. thalamus
	C. reticular formation
	D. cerebellum

76.	Yves has been drinking. He has difficulty walking a straight line when asked to do so by a police
	officer. Apparently, Yves'is functioning poorly.
	A. thalamus
	B. cerebellum
	C. corpus callosum
	D. reticular formation
77.	The part of the brain extending from the medulla through the pons and made up of groups of nerve cells that can immediately activate other parts of the brain to produce general bodily arousal is known as the
	A. reticular formation
	B. thalamus
	C. cerebellum
	D. limbic system
78.	The thalamus may be likened to a(n):
	A. amplifier.
	B. receiver.
	C. filter.
	D. relay station.

79.	Theis the	ne part of the brain that is located in the middle of the central core and acts	
	primarily to relay information about the senses.		
	A. thalamus		
	B. cerebellum		
	C. hypothalamus		
	D. amygdala		
80.	Theis a	tiny part of the brain that maintains homeostasis and produces and regulates vital	
	behavior, such	n as eating, drinking, and sexual behavior.	
	A. medulla		
	B. cerebellum		
	C. amygdala		
	D. hypothalam	nus	
81.	Pizza! Beer! S	ex! Our motivation or drive for such things is based on the activity of the brain	
	region known as the:		
	A. hypothalam	ius.	
	B. thalamus.		
	C. hippocamp	us.	
	D. amygdala.		

82.	Themaintains a steady internal environment for the body.
	A. thalamus
	B. amygdala
	C. hypothalamus
	D. hippocampus
83.	Thein the brain contributes to the body's maintenance of a steady internal physiological
	state, called
	A. thalamus; homeostasis
	B. hypothalamus; homeostasis
	C. hippocampus; equilibrium
	D. thalamus; equilibrium
84.	The limbic system contains which of the following structures?
	A. Amygdala
	B. Pons
	C. Thalamus
	D. Corpus callosum

85.	The structures of thejointly control a variety of basic functions relating to emotions and
	self-preservation such as eating, aggression, and reproduction.
	A. central core of the brain
	B. endocrine system
	C. limbic system
	D. cerebral cortex
86.	Darnell underwent surgery to control his severe epilepsy. Now, however, Darnell cannot form new
	memories of his experiences, although he does remember events in the past. Most likely, the
	surgery destroyed a portion of thein Darnell's brain.
	A. amygdala
	B. striatum
	C. medulla
	D. hippocampus
87.	Theis referred to as the "new brain."
	A. hindbrain
	B. limbic system
	C. cerebral cortex
	D. central core

88.	Which of the following sequences correctly identifies the orders of the lobes of the cortex, from		
	anterior to posterior?		
	A. Frontal $\rightarrow$ temporal and parietal $\rightarrow$ posterior		
	B. Occipital $\rightarrow$ temporal and parietal $\rightarrow$ frontal		
	C. Frontal $\rightarrow$ occipital $\rightarrow$ temporal and parietal		
	D. Frontal $\rightarrow$ temporal and parietal $\rightarrow$ occipital		
89.	In which lobe is the motor area located?		
	A. Occipital		
	B. Frontal		
	C. Parietal		
	D. Temporal		
90.	Thearea is part of the cortex that is largely responsible for the body's voluntary		
	movement.		
	A. attribution		
	B. sensory		
	C. motor		
	D. association		

91. In a neurophysiological investigation, a monkey makes an involuntary gesture when a		
	its brain is electrically stimulated. The area of the brain that was most likely stimulated is the:	
	A. parietal lobe.	
	B. frontal lobe.	
	C. temporal lobe.	
	D. occipital lobe.	
92.	Thearea is the site in the brain of the tissue that corresponds to each of the senses, with the degree of sensitivity related to the amount of tissue.	
	A. attribution	
	B. sensory	
	C. motor	
	D. association	
93.	The somatosensory area is to the auditory area what thelobe is to thelobe.	
	A. temporal; parietal	
	B. parietal; occipital	
	C. occipital; parietal	
	D. parietal; temporal	

94.	The visual a	rea in the cortex is located in the
	A. frontal lol	be
	B. occipital	lobe
	C. temporal	lobe
	D. parietal lo	obe
95.	The brain in	jury suffered by 19th-century railroad worker Phineas Gage allowed psychologists to
	learn about	the functions of the brain's:
	A. association	on areas.
	B. central co	ore.
	C. limbic sys	stem.
	D. sensory	areas.
96.	Thea	reas are considered to be the site of higher mental processes such as thinking,
	language, m	nemory, and speech.
	A. sensory	
	B. attribution	n
	C. motor	
	D. associati	on

97.	Which of the following is NOT an executive function?
	A. Recalling information
	B. Setting goals
	C. Controlling impulses
	D. Making judgments
98.	Violet's speech is slow and labored; however, she can understand others' speech. Violet has:
	A. Broca's aphasia.
	B. Wernicke's aphasia.
	C. dyslexia.
	D. dyscalculia.
99.	Warren suffers from Wernicke's aphasia. Which of the following will he experience in thought or behavior?
	A. Warren will experience an inability to recognize faces.
	B. Warren will have difficulty recognizing objects visually.
	C. Warren will have trouble producing fluent speech.
	D. Warren will experience difficulty understanding language.
100	The process by which the brain reorganizes itself throughout development is termed:
	A. neuroformation.
	B. neuroplasticity.
	C. neuroadaptation.
	D. neuromutability.

101is the creation of new neurons.
A. Neurogenesis
B. Neuroadaptation
C. Neuromutability
D. Neuropathy
102.Neurogenesis is especially evident in brain areas related to learning and memory. Based on this statement, you might expect neurogenesis to be particularly prevalent in the brain's:
A. thalamus.
B. cerebellum.
C. hippocampus.
D. hypothalamus.
103.Which of the following is TRUE about the brain?
A. New research has confirmed that no new brain cells are created after childhood.

B. The interconnections between neurons become less complex throughout life.

D. The brain does not have the ability to shift functions to different locations in cases of surgery.

C. Specific experience can modify the way in which information is processed.

104. The use of stem cells in research and treatment remains controversial because stem cells come		
from:		
A. nonhuman species.		
B. aborted fetuses.		
C. genetic engineering in the laboratory.		
D. paid adult donors.		
105.Which of the following statements is most accurate with respect to the lateralization of language?		
A. It is most likely left-lateralized.		
B. It is most likely right-lateralized.		
C. The control of language is shared equally between the hemispheres.		
D. The lateralization of language varies dramatically from one person to another.		
106.Trevor is scratching his head, trying desperately to solve a verbal analogy as part of a standardized entrance examination; Sienna, meanwhile, is giving an oral presentation in a political science class. Of the brain's hemispheres, Trevor's hemisphere is most active; Sienna's hemisphere is most active.		
A. right; right		
B. left; left		
C. right; left		
D. left; right		

be affected?	
A. Achieving <i>feng shui</i> in her living room by rearranging the couch and the TV  B. Balancing her checkbook  C. Reading that look on her boyfriend's face  D. Thinking that a new song on the radio is really catchy	
108. The hemispheres of the brain are connected by a bundle of fibers called the:	
A. corpus callosum.  B. corpus cerebellum.  C. central sulcus.	
D. cerebral cortex.	
109.Ramona is a woman. Stefan is a man. Which of the following statements is TRUE regarding potential differences in the corpus callosum between these two individuals?	
A. Stefan's corpus callosum is probably the same size as Ramona's.	
B. Ramona's corpus callosum is larger than Stefan's.	
C. Ramona's corpus callosum is slightly smaller than Stefan's.	
D. Stefan's corpus callosum is much larger than Ramona's.	

107.Kate has suffered right-hemisphere damage. Which of the following processes is LEAST likely to

110.Which of the following generalizations is probably most accurate regarding potential gender differences in the lateralization of language?
A. No gender differences in the lateralization of language have been found.
B. Language is more strongly left-lateralized among females than among males.
C. Language is more strongly left-lateralized among males than among females.
D. The lateralization of language is variable from one person to another.
111.People whose corpus callosum has been surgically cut to stop seizures are called
A. deep-brain patients
B. dual brain patients
C. split-brain patients
D. bicameral patients
112.Mrs. Simon has learned to lessen the pain associated with her migraine headaches by voluntarily
relaxing specific muscles and reducing her blood pressure. This example illustrates:
A. deep-brain stimulation.
B. biofeedback.
C. split-brain control.
D. transcranial stimulation.
113.Theis an insulating coat of fat and protein wrapped around an axon.

.According to thelaw neurons are eithe	er on or off.
At the cellular level, our ability to empathize	- with others may reflect the activity ofneurons
is a chemical message that prevents o	r decreases the likelihood that a receiving neuron
	es a feeling of euphoria, a "runners' high" reflecting
neurons transmit information from the	- perimeter of the body to the central nervous system
.The somatic nervous system regulates volur system underlies involuntary movement.	tary movement; in contrast, thenervous
Arif's heart rate and respiration are slowing, a nervous system has become active.	and his dilated pupils are contracting. His
	is a chemical message that prevents of will fire. is a chemical message that prevents of will fire. After a long run, Aaron sometimes experience the activity of neurotransmitters called neurons transmit information from the somatic nervous system regulates volunt system underlies involuntary movement. Arif's heart rate and respiration are slowing, and a simple of the content of the

121.	is the branch of psychology that seeks to	identify how behavior is influenced and produced
	by our genetic inheritance from our ancestors.	
122.	The tinygland is known as the "master o	gland."
123.	A technique calledrecords the brain's el	ectrical activity through electrodes.
	Wilma has been experiencing memory difficult have a brain tumor. He recommends a(n)	ies, and her doctor is concerned that Wilma may _to confirm his diagnosis.
	Extending from the medulla, through the midbrer regulate general bodily arousal.	ain, into the forebrain is the, which serves to
	Information travels from our sensory receptors association areas.	to thein the brain, which relays it to higher
127.	The amygdala and hippocampus are found wit	hin the brain'ssystem.

128	Epileptics have sometimes had portions of their limbic system removed. Subsequent memory problems may reflect damage to the
129	.The cortex has four major sections called
130	.Thearea in the parietal lobe encompasses specific locations associated with the ability to perceive touch and pressure in a particular area of the body.
131	.New neurons are created even during adulthood, in a process called
132	.Vance has learned to voluntarily control the activation of his autonomic nervous system as part of the treatment for an anxiety disorder. This is an example of
133	Draw a typical neuron and label its major parts accurately. Briefly identify the functions of the parts labeled on your diagram.

134.Briefly discuss what mirror neurons are, how they work and what implications this recent
discovery may hold for future research. What are the evolutionary implications for mirror neurons
existence?
135.Outline the sequence of events that occurs at the synapse when a neural message is
communicated.
136.What are neurotransmitters?

137.Identify and describe any three neurotransmitters, using specific examples.
138.Identify how abnormal levels of specific neurotransmitters may be involved in each of these
disorders: Alzheimer's disease, Parkinson's disease, and schizophrenia.
139.Diagram and describe the peripheral nervous system. Make sure to include descriptions or examples that illustrate understanding.

140.Distinguish between the sympathetic and the parasympathetic divisions of the autonomervous system. For each division, provide an example of a situation in which the division become active. Describe the effects on several bodily processes of the activity of each	ision would
141.Define what evolutionary psychology. Using language as an example, describe how a evolutionary psychologist would explain, describe and study this function.	an
142.Identify six components of the endocrine system. State the hormone(s) each compon	ent
produces. Identify the functions of these hormones.	

143.List and describe the brain imaging techniques.
144.Identify and describe the "old brain" structures or areas. Illustrate the function of each area.
145.Review recent research investigating the effects of gender and culture on brain structure and function.

## Chapter 2 Key

1.	Psychologists who specialize in considering the ways in which the biological structures and		
(p. 50)	functions of the body affect behavior are known as		
	A. genetic psychologists		
	B. biopsychologists		
	C. evolutionary psychologists		
	D. clinical neuropsychologists		
	APA Goal Outcome: 1.2, 10.2  Blooms Taxonomy: Remember		
	Difficulty: Easy		
	Feldman - Chapter 02 #1		
	Learning Outcome: 5-1		
2.	Alison has developed an interest in the ways in which the biological structures and functions of		
(p. 50)	the body affect behavior. She will most likely become a(n):		
	A genetic payabalagist		
	A. genetic psychologist.		
	B. behavioral neuroscientist.		
	C. evolutionary psychologist.		
	D. clinical neuropsychologist.		
	APA Goal Outcome: 1.2, 10.2		
	Blooms Taxonomy: Apply		

Difficulty: Medium Feldman - Chapter 02 #2 Learning Outcome: 5-1

<b>5</b> . (p. 51)	The basic elements of the hervous system are called.	
	A. axons.	
	B. glial cells.	
	C. neurons.	
	D. neurotransmitters.	
		APA Goal Outcome: 1.2 Blooms Taxonomy: Remember Difficulty: Easy Feldman - Chapter 02 #3 Learning Outcome: 5-2
<b>4.</b> (p. 51)	As many asneurons throughout the body are involved in the control	ol of behaviour.
	A. 1 billion	
	B. 1 trillion	
	C. 5 million	
	D. 50 million	
		APA Goal Outcome: 1.2 Blooms Taxonomy: Remember Difficulty: Easy Feldman - Chapter 02 #4 Learning Outcome: 5-2
5. (p. 51)	Neurons are physically held in place by	
	A. axons	
	B. glial cells	
	C. dendrites	
	D. myelin cells	

Blooms Taxonomy: Remember

Difficulty: Easy

Feldman - Chapter 02 #5

Learning Outcome: 5-2

Learning Outcome: 5-2

6. (p. 51)	Which of the following is NOT one of the functions of glial cells?
	A. They nourish nerve cells.
	B. They communicate messages within the nervous system.
	C. They help repair damage that might occur to neurons.
	D. They provide nourishment to neurons.
	APA Goal Outcome: 1.2 Blooms Taxonomy: Understand Difficulty: Medium Feldman - Chapter 02 #6 Learning Outcome: 5-2
<b>7</b> . (p. 51)	A cluster of fibers at one end of a neuron that receives messages from other neurons is called:
	A. axon.
	B. terminal button.
	C. glial fiber.
	<u>D.</u> dendrite.
	APA Goal Outcome: 1.2 Blooms Taxonomy: Remember Difficulty: Easy Feldman - Chapter 02 #7

(p. 51)	51)	
	A. neuron's cell body.	
	B. cluster of fibers at one end of a neuron.	
	C. support cell in the nervous system.	
	<u>D.</u> long, slim, tubelike structure extending from a neuron.	
		APA Goal Outcome: 1.2
		Blooms Taxonomy: Remember
		Difficulty: Easy Feldman - Chapter 02 #8
		Learning Outcome: 5-2
9.	Which of the following structures is especially important for carrying	messages received by the
(p. 51)	dendrites to other neurons?	
	A. Neurotransmitter	
	B. Synapse	
	<u>C.</u> Axon	
	D. Glial cell	
		APA Goal Outcome: 1.2
		Blooms Taxonomy: Remember
		Difficulty: Medium

Feldman - Chapter 02 #9 Learning Outcome: 5-2

An axon is a(n):

8.

(p. 51)	
	A. neurotransmitters.
	B. dendrites.
	<u>C.</u> axons.
	D. glial cells.
	APA Goal Outcome: 1.2  Blooms Taxonomy: Remember  Difficulty: Easy  Feldman - Chapter 02 #10  Learning Outcome: 5-2
<b>11</b> . (p. 51)	Which of the following sequences correctly arranges nervous system structures from the most general to the most specific?
	<ul> <li>A. Neuron → axon → terminal button</li> <li>B. Neuron → terminal button → axon</li> <li>C. Axon → terminal button → neuron</li> <li>D. Axon → neuron → terminal button</li> </ul>
	APA Goal Outcome: 1.2

Blooms Taxonomy: Understand

Feldman - Chapter 02 #11 Learning Outcome: 5-2

Difficulty: Medium

10.

Terminal buttons are found at the end of:

12.	Dendrite is to axon what	is to	
(p. 51)			

- A. receiving; sending
- B. sending; receiving
- C. reuptake; action potential
- D. action potential; reuptake

APA Goal Outcome: 1.2

Blooms Taxonomy: Understand

Difficulty: Easy

Feldman - Chapter 02 #12

Learning Outcome: 5-2

- 13. Which of the following sequences accurately reflects the route followed by nerve impulses (p. 52) when one neuron communicates with another?
  - A. Dendrite  $\rightarrow$  axon  $\rightarrow$  cell body
  - **B.** Dendrite  $\rightarrow$  cell body  $\rightarrow$  axon
  - C. Cell body  $\rightarrow$  axon  $\rightarrow$  dendrite
  - D. Axon  $\rightarrow$  dendrite  $\rightarrow$  cell body

APA Goal Outcome: 1.2

Blooms Taxonomy: Understand

Difficulty: Medium

Feldman - Chapter 02 #13

Learning Outcome: 5-2

14.	Electrical wires are generally protected by a tube of plastic. A similar insulating function is		
(p. 52)	performed in the nervous system by the:		
	A. myelin sheath.		
	B. glial cells.		
	C. terminal buttons.		
	D. synapse.		
		APA Goal Outcome: 1.2	
		Blooms Taxonomy: Understand Difficulty: Medium	
		Feldman - Chapter 02 #14	
		Learning Outcome: 5-2	
15.	is a protective coat of fat and protein that wraps around the axon.		
(p. 52)			
	A. Myelin sheath		
	B. Glial cell		
	C. Dendrite		
	D. Synapse		
		APA Goal Outcome: 1.2	
		Blooms Taxonomy: Remember	
		Difficulty: Easy	

Feldman - Chapter 02 #15 Learning Outcome: 5-2

16.	You cannot fire a gun soπly, or	flush a tollet halfway. Like an action potential, gun fire and a
(p. 52)	toilet's flush follow thelav	N.
	A. incremental transformation	
	B. graded action	
	C. all-or-none	
	D. intensity of stimulus	
		APA Goal Outcome: 1.2
		Blooms Taxonomy: Understand Difficulty: Medium
		Feldman - Chapter 02 #16
		Learning Outcome: 5-2
17.	The rule that neurons are either	r on or off is known as thelaw.
(p. 52)		
	A. intensity of stimulus	
	B. graded action	
	C. all-or-none	
	D. incremental transformationa	I
		ADA O - 1 O - 1 4 S
		APA Goal Outcome: 1.2 Blooms Taxonomy: Remember
		Difficulty: Fact

Feldman - Chapter 02 #17 Learning Outcome: 5-2

18.	The state in which there is a negative electrical charge of about -70 millivolts within a neuron		
(p. 52)	known as thestate.		
	A. triggering		
	B. terminal		
	C. optimum		
	<u>D.</u> resting		
	APA Goal Outcome: 1.2  Blooms Taxonomy: Remember		
	Difficulty: Easy		
	Feldman - Chapter 02 #18		
	Learning Outcome: 5-2		
19.	Regarding action potentials, which of the following statements is TRUE?		
(p. 53)			
	A. As the impulse travels along the axon, the movement of ions causes a change in charge		
	from positive to neutral in successive sections of the axon.		
	<b>B.</b> The action potential moves from one end of the axon to the other like a flame moving along		
	a fuse.		
	C. After the impulse has passed through a particular section of the axon, negative ions are		
	pumped out of that section, and its charge returns to positive while the action potential		
	continues to move along the axon.		

D. Just after an action potential has passed through a section of the axon, a neuron can fire

APA Goal Outcome: 1.2
Blooms Taxonomy: Remember

Feldman - Chapter 02 #19 Learning Outcome: 5-2

Difficulty: Medium

again immediately if it receives appropriate stimulation.

20. (p. 53)	As an action potential occurs, the neuron's electrical charge:
	A. changes from negative to neutral.
	B. changes from positive to neutral.
	<u>C.</u> changes from negative to positive.
	D. changes from positive to negative.
	APA Goal Outcome: 1.2
	Blooms Taxonomy: Remember
	Difficulty: Medium
	Feldman - Chapter 02 #20 Learning Outcome: 5-2
	Ecanning Galconic. 5 2
21.	are specialized neurons that fire not only when a person enacts a particular behavior,
(p. 54)	but also when a person simply observes another individual carrying out the same behavior.
	A. Pharyngeal motorneuron
	B. Mirror neurons
	C. Ventral cord motor neuron
	D. Amphid neurons
	APA Goal Outcome: 1.2
	Blooms Taxonomy: Remember
	Difficulty: Easy
	Feldman - Chapter 02 #21

Learning Outcome: 5-2

22. (p. 54)	Regarding mirror neurons, which of the following statements is ACCURATE?
	A. Mirror neurons are involved in face recognition and language acquisition, but not in empathy.
	B. Mirror neurons are involved in empathy and face recognition, but not in language acquisition.
	C. Mirror neurons are involved in empathy, language acquisition, and face recognition.
	<u>D.</u> Mirror neurons are involved in empathy and language acquisition, but not in face recognition.
	APA Goal Outcome: 1.2  Blooms Taxonomy: Understand  Difficulty: Medium  Feldman - Chapter 02 #22  Learning Outcome: 5-2
<b>23</b> . (p. 55)	A synapse is a(n):
	A. chemical.
	B. signal.
	C. joint.
	<u>D.</u> gap.
	APA Goal Outcome: 1.2, 4.2
	Blooms Taxonomy: Understand
	Difficulty: Medium Feldman - Chapter 02 #23

Learning Outcome: 5-2

24.	is the space between two neurons where the axon of a sending neuron communicates		
(p. 55)	with the dendrites of a receiving neuron by using chemical messages.		
	A. Synapse		
	B. Terminal button		
	C. Axon		
	D. Cell body		
	APA Goal Outcome: 1.2, 4.2		
	Blooms Taxonomy: Remember		
	Difficulty: Medium		
	Feldman - Chapter 02 #24		
	Learning Outcome: 5-2		

25. Which of the following statements regarding inhibitory messages is TRUE?

(p. 56)

- A. Inhibitory messages always increase the likelihood that a receiving neuron will fire.
- **B.** Inhibitory messages decrease the likelihood that a receiving neuron will fire.
- C. The dendrites of a neuron cannot receive both excitatory and inhibitory messages simultaneously.
- D. Inhibitory messages make it more likely that an action potential will travel down its axon.

APA Goal Outcome: 1.2, 4.2
Blooms Taxonomy: Understand
Difficulty: Medium
Feldman - Chapter 02 #25
Learning Outcome: 5-3

26. (p. 56)	The reabsorption of neurotransmitters by a terminal button is termed as:	
	A. recycling.	
	B. reassertion.	
	C. reuptake.	
	D. reuse.	
		APA Goal Outcome: 1.2, 4.2 Blooms Taxonomy: Remember Difficulty: Easy Feldman - Chapter 02 #26 Learning Outcome: 5-3
<b>27</b> . (p. 57)	Which neurotransmitter is described INCORRECTLY?	
	A. Acetylcholine–transmits messages related to skeletal muscles	
	<b>B.</b> GABA—an excitatory neurotransmitter inhibited by alcohol or tranquil	izers
	C. Serotonin-helps regulate sleep and mood	
	D. Glutamate-plays a role in memory	
		APA Goal Outcome: 1.2 Blooms Taxonomy: Understand Difficulty: Medium Feldman - Chapter 02 #27 Learning Outcome: 5-3
<b>28</b> . (p. 58)	The neurotransmitter dopamine is involved in:	
	A. the brain's effort to deal with pain.	
	B. Alzheimer's disease.	
	C. the regulation of sleep, eating, mood, and pain.	
	<u>D.</u> movement, attention, and learning.	

Blooms Taxonomy: Understand
Difficulty: Medium
Feldman - Chapter 02 #28
Learning Outcome: 5-3

29. \	Which neurotransmitter	is CORRECTLY matched	with a psychological function?
-------	------------------------	----------------------	--------------------------------

(p. 58)

- A. Relief of pain-glutamate
- B. Regulates mood-acetylcholine
- C. Facilitates learning-dopamine
- D. Contributes to memory-serotonin

APA Goal Outcome: 1.2
Blooms Taxonomy: Remember
Difficulty: Medium
Feldman - Chapter 02 #29
Learning Outcome: 5-3

30. Which disorder is CORRECTLY paired with an associated neurotransmitter?

(p. 58)

A. Parkinson's disease: dopamine

B. Depression: glutamate

C. Schizophrenia: serotonin

D. Alzheimer's disease: endorphins

<b>31</b> . <i>(p. 57)</i>	Inhibitory is to excitatory whatis to	
	A. glutamate; GABA	
	B. glutamate; acetylcholine	
	C. GABA; glutamate	
	D. endorphins; GABA	
		APA Goal Outcome: 1.2
		Blooms Taxonomy: Understand
		Difficulty: Medium
		Feldman - Chapter 02 #31 Learning Outcome: 5-3
<b>32</b> . <i>(p. 60)</i>	Which expression below most closely approximate brain?	es the number of neural connections in the
	A. 10 quadrillion	
	B. 1 million	
	C. 1 billion	
	D. 1 trillion	
		APA Goal Outcome: 1.2, 7.3
		Blooms Taxonomy: Remember
		Difficulty: Medium
		Feldman - Chapter 02 #32
		Learning Outcome: 6-1

33. (p. 60)	The nervous system is divided into the	and the	nervous systems.	
	A. primary; secondary			
	B. somatic; autonomic			
	C. sympathetic; parasympathetic			
	<u>D.</u> central; peripheral			
			APA Goal Blooms Taxonon	Outcome: 1.2
				Difficulty: Easy
				hapter 02 #3: Outcome: 6-
<b>34</b> . (p. 60)	The brain and the spinal cord constitute the	enervo	us system.	
	A. central			
	B. peripheral			
	C. extraneous			
	D. parasympathetic			
			Blooms Taxonon L Feldman - C	Outcome: 1.2 ny: Remembe Difficulty: Easy hapter 02 #34 Outcome: 6-1
35. (p. 60)	is an automatic, involuntary response	e to an incom	ing stimulus.	
	A. Action potential			
	B. Intuition			
	C. Instinct			
	<u>D.</u> Reflex			

Blooms Taxonomy: Remember
Difficulty: Easy
Feldman - Chapter 02 #35
Learning Outcome: 6-1

APA Goal Outcome: 1.2

Feldman - Chapter 02 #37 Learning Outcome: 6-1

Difficulty: Medium

Blooms Taxonomy: Understand

36. (p. 60)	The	is the main means for transmitting messages between the brain a	nd the body.
	A. corte	ex	
	B. medu	ulla	
	C. axon		
	<u>D.</u> spina	al cord	
<b>37</b> . <i>(p. 60)</i>	Which o	Bloom of the following is TRUE of the spinal cord's control of behavior?	APA Goal Outcome: 1.2 oms Taxonomy: Understand Difficulty: Difficult Feldman - Chapter 02 #36 Learning Outcome: 6-1
	A. The s	spinal cord cannot control any behaviors without the help of the brain	ı.
	B. The	spinal cord is not involved in reflexes.	
	<u>C.</u> The s	spinal cord can control some simple reflexes without the brain's help.	

D. The spinal cord can control relatively complex behavior without the brain's help.

38.	The central nervous system is composed of The peripheral nervous system comprises
(p. 60, 6	<u> </u>
	A. the somatic and autonomic nervous systems; the sympathetic and parasympathetic nervous systems
	B. the somatic and autonomic nervous systems; the brain and the spinal cord
	C. the sympathetic and parasympathetic nervous systems; the somatic and autonomic nervous systems
	$\underline{\textbf{D.}}$ the brain and the spinal cord; the somatic and autonomic nervous systems
	APA Goal Outcome: 1 Blooms Taxonomy: Understar Difficulty: Mediu Feldman - Chapter 02 #3 Learning Outcome: 6
39. (p. 62)	Sensory is to motor whatis to
	A. efferent; afferent
	B. afferent; efferent
	C. afferent; interneuron
	D. interneuron; efferent
	APA Goal Outcome: 1
	Blooms Taxonomy: Understar

APA Goal Outcome: 1.2 Blooms Taxonomy: Understand Difficulty: Medium Feldman - Chapter 02 #39 Learning Outcome: 6-1

4 <b>U.</b> (p. 62)	are neurons that connect sensory and motor neurons, carrying messages between the
(ρ. 02)	two.
	A. Mirror neurons
	B. Amphid neurons
	C. Interneurons
	D. Autoneurons
	APA Goal Outcome: 1.2
	Blooms Taxonomy: Remembe
	Difficulty: Medium Feldman - Chapter 02 #40
	Learning Outcome: 6-1
<b>41</b> . (p. 62)	The two major divisions of the peripheral nervous system are theanddivisions.
	A. somatic; autonomic
	B. sympathetic; parasympathetic
	C. afferent; efferent
	D. sensory; motor
	APA Goal Outcome: 1.2
	Blooms Taxonomy: Remembe

APA Goal Outcome: 1.2
Blooms Taxonomy: Remember
Difficulty: Medium
Feldman - Chapter 02 #41
Learning Outcome: 6-1

42.	is the part of the peripheral nervous system that specializes in the control of voluntary		
(p. 62)	movements and the communication of information to and from the sense organs.		
	A. Somatic division		
	B. Sympathetic division		
	C. Parasympathetic division		
	D. Autonomic division		
	APA Goal Outcome: 1.2		
	Blooms Taxonomy: Remember  Difficulty: Easy		
	Feldman - Chapter 02 #42		
	Learning Outcome: 6-1		
43. (p. 62)	Somatic is to autonomic whatis to		
	A. involuntary; voluntary		
	B. voluntary; involuntary		
	C. excitation; rest		
	D. rest; excitation		

APA Goal Outcome: 1.2
Blooms Taxonomy: Understand
Difficulty: Medium
Feldman - Chapter 02 #43
Learning Outcome: 6-1

<b>44</b> . (p. 62)	The part of the autonomic division of the nervous system that acts to prepare the body for				
(p. 02)	action in stressful situations, engaging all the organism's resources to respond to a threat is				
	known as the	known as the			
	A. somatic division				
	B. sympathetic division				
	C. parasympathetic division				
	• • •				
	D. apathetic division				
		APA Goal Outcome: 1.2			
		Blooms Taxonomy: Remembe			
		Difficulty: Easy			
		Feldman - Chapter 02 #4- Learning Outcome: 6-			
		•			
45.	The "fight-or-flight" response is associated with thedivision.				
(p. 62)					
	A. somatic				
	B. sympathetic				
	C. parasympathetic				
	D. apathetic				
		ARA Cool Outer 44			
		APA Goal Outcome: 1.2 Blooms Taxonomy: Understand			

APA Goal Outcome: 1.2 Blooms Taxonomy: Understand Difficulty: Easy Feldman - Chapter 02 #45 Learning Outcome: 6-1

46.	The part of the autonomic division of the nervous system that acts to calm the body after an		
(p. 62)	emergency has ended is known as thedivision.		
	A. somatic		
	B. sympathetic		
	<u>C.</u> parasympathetic		
	D. apathetic		
	APA Goal Outcome: 1.2		
	Blooms Taxonomy: Remembe Difficulty: Easy		
	Feldman - Chapter 02 #40		
	Learning Outcome: 6-		
17	The division also directs the hady to store energy for use in emergencies		
<b>47</b> . (p. 62)	Thedivision also directs the body to store energy for use in emergencies.		
(p. 0 <u>-</u> )			
	A. somatic		
	B. sympathetic		
	<u>C.</u> parasympathetic		
	D. apathetic		
	APA Goal Outcome: 1.2		
	Blooms Taxonomy: Understand Difficulty: Fasi		

Feldman - Chapter 02 #47 Learning Outcome: 6-1

- Which of the following situations is most likely to involve the action of the parasympathetic nervous system?
  - A. Brooke's finger accidentally grazes the hot iron; she immediately jerks her hand away.
  - **B.** After mistaking her roommate for a thief, Callum relaxes with a glass of water.
  - C. Walking toward her car in a deserted parking lot one night, Danica is surprised by a strange man appearing from nowhere.
  - D. Peyton is preparing to go to bed and is alarmed to see a stranger at her window.

APA Goal Outcome: 1.2, 4.4

Blooms Taxonomy: Apply

Difficulty: Medium

Feldman - Chapter 02 #48

Learning Outcome: 6-1

- 49. With respect to its potential basis in nervous system activity, "voodoo death" has been attributed to:
  - **<u>A.</u>** an overactive sympathetic nervous system.
  - B. an overactive parasympathetic nervous system.
  - C. the cessation of sympathetic nervous system responses.
  - $\ensuremath{\mathsf{D}}.$  an understimulated central nervous system.

APA Goal Outcome: 1.2, 1.3, 3.1, 4.2

Blooms Taxonomy: Remember

Difficulty: Easy

Feldman - Chapter 02 #49

Learning Outcome: 6-1

50. (p. 62)	Izzy sees a leopard in her backyard. Her pupils are dilated and her heart is pounding; her breathing is shallow and rapid. Hernervous system is active.		
	A. parasympathetic		
	B. sympathetic		
	C. apathetic		
	D. somatic		
	APA Goal Outcome: 1.2 Blooms Taxonomy: Apply Difficulty: Easy Feldman - Chapter 02 #50 Learning Outcome: 6-1		
<b>51</b> . <i>(p. 63)</i>	Which of the following terms best describes the organization of the nervous system today?		
	A. Linear		
	B. Recursive		
	<u>C.</u> Hierarchical		
	D. Random		
	APA Goal Outcome: 1.2		
	Blooms Taxonomy: Understand  Difficulty: Medium		

Feldman - Chapter 02 #51 Learning Outcome: 6-1

52.	The branch of psychology that seeks to identify beha	avior patterns that are a result of our		
(p. 63)	genetic inheritance from our ancestors is known as			
	A. social psychology			
	B. health psychology			
	C. clinical psychology			
	<u>D.</u> evolutionary psychology			
	<u>=</u> everage payonelogy			
		APA Goal Outcome: 1.2		
		Blooms Taxonomy: Remember		
		Difficulty: Easy		
		Feldman - Chapter 02 #52 Learning Outcome: 6-1		
53.	Evolutionary psychologists have spawned a new and	d increasingly influential field:		
(p. 64)		G ,		
	A. social psychology.			
	B. health psychology.			
	C. molecular genetics.			
	<u>D.</u> behavioral genetics.			
	<u>=</u> sonavioral generics.			
		APA Goal Outcome: 1.2		
		Blooms Taxonomy: Remember		
		Difficulty: Easy		
		Feldman - Chapter 02 #53		
		Learning Outcome: 6-1		

54. (p. 64)	The study of the effects of heredity on how people conduct themselves is known as		
	A. behavioral genetics		
	B. classical genetics		
	C. development genetics		
	D. molecular genetics		
	APA Goal Outcome: 1.2, 10.2		
	Blooms Taxonomy: Remember		
	Difficulty: Medium Feldman - Chapter 02 #54		
	Learning Outcome: 6-1		
55.	Dr. Schilling is investigating the potential genetic basis of antisocial personality disorder by		
(p. 64)	examining the relative prevalence of the disorder among either identical or fraternal twins,		
	raised either together or in different families. Dr. Schilling is best described as a		
	A. behavioral geneticist		
	B. classical geneticist		
	C. development geneticist		
	D. molecular geneticist		
	APA Goal Outcome: 1.2, 4.2, 10.2		
	Blooms Taxonomy: Apply		
	Difficulty: Medium		

Feldman - Chapter 02 #55 Learning Outcome: 6-1

56.	Which of the following statements best expresses the relationship between the nervous			
(p. 64)	system and the endocrine system?			
	A. They operate entirely independently.			
	<ul> <li>B. The endocrine system is part of the central nervous system.</li> <li>C. The endocrine system influences and is influenced by the central nervous system.</li> <li>D. The central nervous system is one part of the endocrine system.</li> </ul>			
	APA Goal Outcome: 1.2			
	Blooms Taxonomy: Remember			
	Difficulty: Easy Feldman - Chapter 02 #56			
	Learning Outcome: 6-2			
57.	A key component of the endocrine system is the tinygland, which is found near–and			
(p. 64)	regulated by-thein the brain.			
	A. adrenal; hippocampus			
	B. pituitary; hippocampus			
	C. adrenal; hypothalamus			
	<u>D.</u> pituitary; hypothalamus			
	APA Goal Outcome: 1.2			
	Blooms Taxonomy: Understand			
	Difficulty: Medium			

Feldman - Chapter 02 #57 Learning Outcome: 6-2

58.	The	gland is a major component of the endocrine system which secretes hormones that		
(p. 64)	control g	control growth and other parts of the endocrine system.		
	A. esopl	hageal		
	B. apoci	rine		
	C. parotid			
	<u>D.</u> pituita	<u>D.</u> pituitary		
		APA Goal Outcome: 1.2		
		Blooms Taxonomy: Remember		
		Difficulty: Easy		
		Feldman - Chapter 02 #58 Learning Outcome: 6-2		
		Learning Guicome. 0-2		
59.	Thegland has sometimes been called the "master gland" because it controls the			
(p. 64)	functioning of the rest of the endocrine system.			
	A. pituita	ary		
	B. esopl	hageal		
	C. apoci	rine		
	D. parot	id		
		APA Goal Outcome: 1.2		
		Blooms Taxonomy: Remember		
		Difficulty: Easy		

Feldman - Chapter 02 #59 Learning Outcome: 6-2

- 60. The hormone oxytocin has been implicated in each of the following behaviors EXCEPT the: (p. 64)
  - A. urge to nurse newborn infants.
  - B. desire to seek or respond to potential sexual partners.
  - C. development of trust in others.
  - <u>D.</u> tendency to produce violent, dangerous behavior.

- 61. Which of the following glands or structures is CORRECTLY matched with the hormone it produces?
  - A. Pineal gland; oxytocin
  - **B.** Pancreas; insulin
  - C. Medulla; melatonin
  - D. Pituitary gland; aldosterone

APA Goal Outcome: 1.2
Blooms Taxonomy: Remember
Difficulty: Medium
Feldman - Chapter 02 #61
Learning Outcome: 6-2

62. (p. 65)	Which of the following hormones is CORRECTLY matched with its function?	
	A. Aldosterone - regulates daily rhythms	
	B. Erythropoietin - regulates the sodium and potassium balance in the blood	
	C. Adipokines - regulate the production of red blood cells	
	<u>D.</u> Parathyroid hormone - increases blood calcium	
	APA Goal Outcome: 1.2	
	Blooms Taxonomy: Remember	
	Difficulty: Medium	
	Feldman - Chapter 02 #62	
	Learning Outcome: 6-2	

(p. 65) treatment for menopausal symptoms?

Which of the following statements is TRUE regarding hormone replacement therapy as a

- **<u>A.</u>** It is used less frequently now than in the past.
- B. It is the only treatment that does not have any side effects.
- C. Its benefits outweigh its risks.

63.

D. It has become increasingly popular.

64. (p. 68)	Which of the following is NOT a brain scanning technique?
	A. Electroencephalogram (EEG)
	B. Electromyogram (EMG)
	C. Positron emission tomography (PET)
	D. Transcranial magnetic stimulation (TMS)
	APA Goal Outcome: 1.2, 2. Blooms Taxonomy: Remembe Difficulty: Eas Feldman - Chapter 02 #6 Learning Outcome: 7-
65. (p. 69)	Which brain imaging technique below is CORRECTLY matched with its description?
	A. EEG-records the brain's electrical activity with electrodes
	B. PET-causes a momentary interruption of the brain's electrical activity
	C. fMRI-traces biochemical activity in the brain
	D. TMS-produces a graph of electrical wave patterns
	APA Goal Outcome: 1.2, 2. Blooms Taxonomy: Understan Difficulty: Mediui Feldman - Chapter 02 #6 Learning Outcome: 7-
66. (p. 69)	Which brain imaging technique below is INCORRECTLY matched with its diagnostic use?
	A. EEG–facilitates the diagnosis of epilepsy and learning disorders
	B. PET-may help identify brain tumors
	C. fMRI–improves diagnosis of strokes and multiple sclerosis
	<u>D.</u> TMS–facilitates the diagnosis of nervous system disorders such as Alzheimer's disease

Blooms Taxonomy: Understand
Difficulty: Easy
Feldman - Chapter 02 #66
Learning Outcome: 7-1

67. Brent is taking part in an experiment in the cognitive neuroscience lab on campus. Silently, he reads rapid sequences of words flashed on a computer screen. Simultaneously, the electrical activity of his brain is recorded through skull electrodes. The brain scanning technique used in this study is:

- A. fMRI.
- B. PET.
- C. EEG.
- D. TMS.

APA Goal Outcome: 1.2, 2.2

Blooms Taxonomy: Apply

Difficulty: Medium

Feldman - Chapter 02 #67

Learning Outcome: 7-1

68. The newest brain scanning technique which is popularly used is:

(p. 69)

- A. PET.
- B. EEG.
- C. TMS.
- D. fMRI.

(p. 70)	through her brain. Marisol is undergoing:
	A. optogenetic therapy.
	B. transcranial magnetic stimulation.
	C. positron emission tomography.
	D. functional magnetic resonance imaging.
	APA Goal Outcome: 1.2, 4.2  Blooms Taxonomy: Apply  Difficulty: Medium  Feldman - Chapter 02 #69  Learning Outcome: 7-1
<b>70</b> . (p. 70)	Soon, it may be possible to view the activity of individual neural circuits, due to the emerging field of:
	A. optogenetics.
	B. synaptic reflectance.
	C. neurogenetics.
	D. transcranial magnetic stimulation.
	APA Goal Outcome: 1.2, 2.2
	Blooms Taxonomy: Remember
	Difficulty: Easy

Feldman - Chapter 02 #70 Learning Outcome: 7-1

Marisol is trying a new treatment for severe depression. Brief magnetic pulses are sent

69.

(p. 70)		
	<u>A.</u> Hippocampus	
	B. Cerebellum	
	C. Pons	
	D. Reticular formation	
		APA Goal Outcome: 1.2
		Blooms Taxonomy: Remember
		Difficulty: Medium
		Feldman - Chapter 02 #71 Learning Outcome: 7-1
<b>72</b> . (p. 70)	The hindbrain includes each of the following structures EXCEPT the:	
	A. medulla.	
	B. thalamus.	
	C. pons.	
	D. cerebellum.	
		APA Goal Outcome: 1.2
		Blooms Taxonomy: Remember
		Difficulty: Easy
		Feldman - Chapter 02 #72

Learning Outcome: 7-2

Which of the following structures is NOT part of the brain's central core?

71.

73.	The part of the brain closest to the spinal cord is the; it is importa	ant for such functions as
(p. 70)	<del></del> ,	
	A. cerebellum; maintaining body temperature	
	B. cerebellum; heart rate and respiration	
	C. medulla; maintaining body temperature	
	<u>D.</u> medulla; heart rate and respiration	
		4P4 0 - 10 ( 40
		APA Goal Outcome: 1.2 Blooms Taxonomy: Remember
		Difficulty: Medium
		Feldman - Chapter 02 #73
		Learning Outcome: 7-2
74.	The pons serves to:	
(p. 70)		
	A. regulate arousal.	
	B. relay sensory information to the brain's association areas.	
	<u>C.</u> integrate movement between the left and right halves of the body.	
	D. consolidate memories.	
		APA Goal Outcome: 1.2
		Blooms Taxonomy: Remember

Difficulty: Medium

Feldman - Chapter 02 #74 Learning Outcome: 7-2

<b>75</b> . <i>(p. 70)</i>	The part of the brain that controls bodily balance is the
	A. hypothalamus
	B. thalamus
	C. reticular formation
	<u>D.</u> cerebellum
	APA Goal Outcome: 1.2 Blooms Taxonomy: Remember
	Difficulty: Medium
	Feldman - Chapter 02 #75
	Learning Outcome: 7-2
76.	Yves has been drinking. He has difficulty walking a straight line when asked to do so by a
(p. 70)	police officer. Apparently, Yves'is functioning poorly.
	A. thalamus
	B. cerebellum
	C. corpus callosum
	D. reticular formation
	APA Goal Outcome: 1.2, 4.4
	Blooms Taxonomy: Apply
	Difficulty: Medium

Feldman - Chapter 02 #76 Learning Outcome: 7-2

<b>77</b> . (p. 70)	The part of the brain extending from the medulla through the pons and made up of groups of nerve cells that can immediately activate other parts of the brain to produce general bodily arousal is known as the
	A. reticular formation
	B. thalamus
	C. cerebellum
	D. limbic system
	APA Goal Outcome: 1.
	Blooms Taxonomy: Remember
	Difficulty: Mediur Feldman - Chapter 02 #7
	Learning Outcome: 7
<b>78</b> . (p. 72)	The thalamus may be likened to a(n):
	A. amplifier.
	B. receiver.
	C. filter.
	<u>D.</u> relay station.
	APA Goal Outcome: 1.
	Blooms Taxonomy: Understan
	Difficulty: Mediur

Feldman - Chapter 02 #78 Learning Outcome: 7-2

79.	Theis the part of the brain that is located in the middle of the central core and acts
(p. 72)	primarily to relay information about the senses.
	A. thalamus
	B. cerebellum
	C. hypothalamus
	D. amygdala
	APA Goal Outcome: 1.2
	Blooms Taxonomy: Remember
	Difficulty: Easy Feldman - Chapter 02 #79
	Learning Outcome: 7-2
30.	Theis a tiny part of the brain that maintains homeostasis and produces and regulates
(p. 72)	vital behavior, such as eating, drinking, and sexual behavior.
	A. medulla
	B. cerebellum
	C. amygdala
	<u>D.</u> hypothalamus
	APA Goal Outcome: 1.2
	Plaama Tayanamy, Understand

APA Goal Outcome: 1.2
Blooms Taxonomy: Understand
Difficulty: Easy
Feldman - Chapter 02 #80
Learning Outcome: 7-2

Pizza! Beer! Sex! Our motivation or drive for such things is based on the activity of the brain	
region known as the:	
A. hypothalamus.	
B. thalamus.	
C. hippocampus.	
D. amygdala.	
	APA Goal Outcome: 1.2, 4.4
	Blooms Taxonomy: Apply
	Difficulty: Easy
	Feldman - Chapter 02 #81 Learning Outcome: 7-2
The maintains a steady internal environme	nt for the body.
	·
A. thalamus	
B. amygdala	
C. hypothalamus	
D. hippocampus	
	APA Goal Outcome: 1.2
	Blooms Taxonomy: Remember
	Difficulty: Easy Feldman - Chapter 02 #82
	region known as the:  A. hypothalamus. B. thalamus. C. hippocampus. D. amygdala.  Themaintains a steady internal environment. A. thalamus B. amygdala C. hypothalamus

83. (p. 72)	Thein the brain contributes to the body's maintenance of a st state, called	eady internal physiological
	A. thalamus; homeostasis	
	B. hypothalamus; homeostasis	
	C. hippocampus; equilibrium	
	D. thalamus; equilibrium	
84.	The limbic system contains which of the following structures?	APA Goal Outcome: 1.2 Blooms Taxonomy: Remember Difficulty: Medium Feldman - Chapter 02 #83 Learning Outcome: 7-2
(p. 73)		
	A. Amygdala	
	B. Pons	
	C. Thalamus	
	D. Corpus callosum	
		APA Goal Outcome: 1.2
		Blooms Taxonomy: Remember

APA Goal Outcome: 1.2 Blooms Taxonomy: Remember Difficulty: Easy Feldman - Chapter 02 #84 Learning Outcome: 7-2

85.	The structures of the	_jointly control a variety of basic functions relating to emotions and
(p. 73)	self-preservation such as	eating, aggression, and reproduction.
	A control core of the broi	^
	A. central core of the brain	I
	B. endocrine system	
	C. limbic system	
	D. cerebral cortex	
		APA Goal Outcome: 1.2
		Blooms Taxonomy: Remember
		Difficulty: Easy
		Feldman - Chapter 02 #85 Learning Outcome: 7-2
86.	Darnell underwent surgery to control his severe epilepsy. Now, however, Darnell cannot form	
(p. 73)	new memories of his expe	eriences, although he does remember events in the past. Most likely,
	the surgery destroyed a p	ortion of thein Darnell's brain.
	A. amygdala	
	B. striatum	
	C. medulla	
	<u>D.</u> hippocampus	
		APA Goal Outcome: 1.2, 4.2
		Blooms Taxonomy: Apply
		Difficulty: Medium
		Feldman - Chapter 02 #86

(p. 73)	
	A. hindbrain
	B. limbic system
	C. cerebral cortex
	D. central core
	APA Goal Outcome: 1.2
	Blooms Taxonomy: Remember
	Difficulty: Easy Feldman - Chapter 02 #87
	Learning Outcome: 7-2
(p. 74)	anterior to posterior?
	A. Frontal → temporal and parietal → posterior
	B. Occipital → temporal and parietal → frontal
	$C.$ Frontal $\rightarrow$ occipital $\rightarrow$ temporal and parietal
	$\underline{\textbf{D.}}$ Frontal $\rightarrow$ temporal and parietal $\rightarrow$ occipital
	APA Goal Outcome: 1.2
	Blooms Taxonomy: Understand
	Difficulty: Medium
	Feldman - Chapter 02 #88

Learning Outcome: 7-2

87.

The\_\_\_\_\_is referred to as the "new brain."

89. (p. 74)	In which lobe is the motor area located?		
	A. Occipital		
	B. Frontal		
	C. Parietal		
	D. Temporal		
		APA Goal Outcome: 1.2	
		Blooms Taxonomy: Remember	
		Difficulty: Easy	
		Feldman - Chapter 02 #89 Learning Outcome: 7-2	
90. (p. 75)	Thearea is part of the cortex that is largel movement.	y responsible for the body's voluntary	
	A. attribution		
	B. sensory		
	C. motor		
	D. association		
		APA Goal Outcome: 1.2	

Blooms Taxonomy: Remember

Feldman - Chapter 02 #90 Learning Outcome: 7-2

Difficulty: Easy

91.	In a neurophysiological investigation, a monkey makes an involuntary gesture when a portion
(p. 75)	of its brain is electrically stimulated. The area of the brain that was most likely stimulated is
	the:
	A. parietal lobe.
	B. frontal lobe.
	C. temporal lobe.
	D. occipital lobe.
	APA Goal Outcome: 1.2, 2
	Blooms Taxonomy: Understa Difficulty: Mediu
	Feldman - Chapter 02 #
	Learning Outcome: 7
92.	Thearea is the site in the brain of the tissue that corresponds to each of the senses,
92. (p. 75)	
u7	with the degree of sensitivity related to the amount of tissue.
	A. attribution
	<u>B.</u> sensory
	C. motor
	D. association
	APA Goal Outcome:
	Blooms Taxonomy: Rememb Difficulty: Ea
	Feldman - Chapter 02 #

93.	The somatosensory area is to the auditory area what the	lobe is to the	lobe.
(p. 75-76)			
	A. temporal; parietal		
	B. parietal; occipital		
	C. occipital; parietal		
	<u>D.</u> parietal; temporal		
		4	PA Goal Outcome: 1.2
			Faxonomy: Understand
		2.00	Difficulty: Easy
		Fel	dman - Chapter 02 #93
			Learning Outcome: 7-2
94. (p. 76)	The visual area in the cortex is located in the		
	A. frontal lobe		
	B. occipital lobe		
	C. temporal lobe		
	D. parietal lobe		
		APA (	Goal Outcome: 1.2, 4.2
		Blooms	Taxonomy: Remember
			Difficulty: Easy

Feldman - Chapter 02 #94 Learning Outcome: 7-2

95.	The brain injury suffered by 19th-century railroad worker Phineas Gage allowed psychologists
(p. 76)	to learn about the functions of the brain's:
	A. association areas.
	B. central core.
	C. limbic system.
	D. sensory areas.
	APA Goal Outcome: 1.2
	Blooms Taxonomy: Remember
	Difficulty: Easy
	Feldman - Chapter 02 #95 Learning Outcome: 7-2
96.	Theareas are considered to be the site of higher mental processes such as thinking,
(p. 76)	language, memory, and speech.
	A. sensory
	B. attribution
	C. motor
	<u>D.</u> association
	APA Goal Outcome: 1.2
	Blooms Taxonomy: Understand
	Difficulty: Medium

Feldman - Chapter 02 #96 Learning Outcome: 7-2

(p. 76)		
	A. Recalling information	
	B. Setting goals	
	C. Controlling impulses	
	D. Making judgments	
		APA Goal Outcome: 1.2
		Blooms Taxonomy: Remember
		Difficulty: Medium
		Feldman - Chapter 02 #97 Learning Outcome: 7-2
		<b>3</b>
98. (p. 76)	Violet's speech is slow and labored; however, she can understand others'	speech. Violet has:
	A. Broca's aphasia.	
	B. Wernicke's aphasia.	
	C. dyslexia.	
	D. dyscalculia.	
		APA Goal Outcome: 1.2, 4.2
		Blooms Taxonomy: Apply Difficulty: Medium
		Feldman - Chapter 02 #98
		Learning Outcome: 7-2

Which of the following is NOT an executive function?

97.

99.	Warren suffers from Wernicke's aphasia. Which of the following will he experience in thought	
(p. 76)	or behavior?	
	A. Warren will experience an inability to recognize faces.	
	B. Warren will have difficulty recognizing objects visually.	
	C. Warren will have trouble producing fluent speech.	
	<u>D.</u> Warren will experience difficulty understanding language.	
	APA Goal Outcome: 1.2, 4.	2
	Blooms Taxonomy: Appl	
	Difficulty: Mediur	n
	Feldman - Chapter 02 #9	
	Learning Outcome: 7	2
100.	The process by which the brain reorganizes itself throughout development is termed:	
(p. 77)	The process by which the brain reorganizes heen uneaghed development is termed.	
,		
	A. neuroformation.	
	B. neuroplasticity.	
	C. neuroadaptation.	
	D. neuromutability.	
	APA Goal Outcome: 1.	
	Blooms Taxonomy: Remembe Difficulty: Eas	
	Feldman - Chapter 02 #10	
	Learning Outcome: 7-	

(p. 77)		
	A. Neurogenesis	
	B. Neuroadaptation	
	C. Neuromutability	
	D. Neuropathy	
		APA Goal Outcome: 1.2
		Blooms Taxonomy: Understand Difficulty: Medium
		Біпісиіу: меайті Feldman - Chapter 02 #101
		Learning Outcome: 7-2
102.	Neurogenesis is especially evident in brain areas rela	ted to learning and memory. Based on
(p. 73, 7	this statement, you might expect neurogenesis to be provided the statement of the statement	particularly prevalent in the brain's:
	A. thalamus.	
	B. cerebellum.	
	C. hippocampus.	
	D. hypothalamus.	
		APA Goal Outcome: 1.2
		Blooms Taxonomy: Understand
		Difficulty: Medium

Feldman - Chapter 02 #102 Learning Outcome: 7-2

101. \_\_\_\_\_is the creation of new neurons.

103.1	Which of the following is TRUE about the brain?
0	-
3	
(p. 77)	

- A. New research has confirmed that no new brain cells are created after childhood.
- B. The interconnections between neurons become less complex throughout life.
- **<u>C.</u>** Specific experience can modify the way in which information is processed.
- D. The brain does not have the ability to shift functions to different locations in cases of surgery.

APA Goal Outcome: 1.2, 3.1

Blooms Taxonomy: Understand

Difficulty: Medium

Feldman - Chapter 02 #103

Learning Outcome: 7-2

104.1 The use of stem cells in research and treatment remains controversial because stem cells 0 come from:

(p. 78)

- A. nonhuman species.
- B. aborted fetuses.
- C. genetic engineering in the laboratory.
- D. paid adult donors.

APA Goal Outcome: 4.4, 4.5
Blooms Taxonomy: Understand
Difficulty: Easy
Feldman - Chapter 02 #104

•	Which of the following statements is most accurate with respect to the lateralization of
0 5	language?
(p. 79)	
	A. It is most likely left-lateralized.
	B. It is most likely right-lateralized.
	C. The control of language is shared equally between the hemispheres.
	D. The lateralization of language varies dramatically from one person to another.
	APA Goal Outcome: 1.2, 8.2  Blooms Taxonomy: Remember
	Difficulty: Easy
	Feldman - Chapter 02 #105
	Learning Outcome: 7-3
106.1	Trevor is scratching his head, trying desperately to solve a verbal analogy as part of a
0 6	standardized entrance examination; Sienna, meanwhile, is giving an oral presentation in a
-	political science class. Of the brain's hemispheres, Trevor'shemisphere is most active;
(p. 79)	Sienna'shemisphere is most active.
	A. right; right
	B. left; left
	C. right; left
	D. left; right

APA Goal Outcome: 1.2, 4.4
Blooms Taxonomy: Apply
Difficulty: Medium
Feldman - Chapter 02 #106
Learning Outcome: 7-3

107.1 0 7	to be affected?
(p. 79)	
	A. Achieving feng shui in her living room by rearranging the couch and the TV
	B. Balancing her checkbook
	C. Reading that look on her boyfriend's face
	D. Thinking that a new song on the radio is really catchy
108.1 0	APA Goal Outcome: 1.2, 4.4  Blooms Taxonomy: Apply  Difficulty: Medium  Feldman - Chapter 02 #107  Learning Outcome: 7-3  The hemispheres of the brain are connected by a bundle of fibers called the:
(p. 80)	
	A. corpus callosum.
	B. corpus cerebellum.
	C. central sulcus.
	D. cerebral cortex.
	APA Goal Outcome: 1.2
	Blooms Taxonomy: Remember

Difficulty: Easy

Feldman - Chapter 02 #108 Learning Outcome: 7-3

- 109.1 Ramona is a woman. Stefan is a man. Which of the following statements is TRUE regarding potential differences in the corpus callosum between these two individuals?

  (p. 80)
  - A. Stefan's corpus callosum is probably the same size as Ramona's.
  - **B.** Ramona's corpus callosum is larger than Stefan's.
  - C. Ramona's corpus callosum is slightly smaller than Stefan's.
  - D. Stefan's corpus callosum is much larger than Ramona's.

APA Goal Outcome: 1.2, 5.5, 8.2

Blooms Taxonomy: Apply

Difficulty: Medium

Feldman - Chapter 02 #109

Learning Outcome: 7-3

110.1 Which of the following generalizations is probably most accurate regarding potential gender 1 differences in the lateralization of language?

(p. 80)

- A. No gender differences in the lateralization of language have been found.
- B. Language is more strongly left-lateralized among females than among males.
- <u>C.</u> Language is more strongly left-lateralized among males than among females.
- D. The lateralization of language is variable from one person to another.

APA Goal Outcome: 1.2, 5.5, 8.2 Blooms Taxonomy: Understand

> Difficulty: Medium Feldman - Chapter 02 #110

111.1 1 1	People whose corpus callosum has been surgically cut to stop seizures are called
(p. 80)	
	A. deep-brain patients
	B. dual brain patients
	C. split-brain patients
	D. bicameral patients
	APA Goal Outcome: 1.2, 4.2 Blooms Taxonomy: Remember Difficulty: Easy Feldman - Chapter 02 #111 Learning Outcome: 7-4
112.1 1 2	Mrs. Simon has learned to lessen the pain associated with her migraine headaches by voluntarily relaxing specific muscles and reducing her blood pressure. This example illustrates:
	A. deep-brain stimulation.
	B. biofeedback.
	C. split-brain control.
	D. transcranial stimulation.
	APA Goal Outcome: 1.2, 4.2 Blooms Taxonomy: Apply Difficulty: Easy Feldman - Chapter 02 #112 Learning Outcome: 7-4
113. (p. 52)	Theis an insulating coat of fat and protein wrapped around an axon.
	myelin sheath

APA Goal Outcome: 1.2
Blooms Taxonomy: Remember

Blooms Taxonomy: Understand

Feldman - Chapter 02 #116 Learning Outcome: 5-3

Difficulty: Medium

114. (p. 52)	According to thelaw neurons are either on or off.
	all-or-none
	APA Goal Outcome: 1.2
	Blooms Taxonomy: Remember
	Difficulty: Medium
	Feldman - Chapter 02 #114 Learning Outcome: 5-2
115.	At the cellular level, our ability to empathize with others may reflect the activity of
(p. 54)	neurons.
	<u>mirror</u>
	APA Goal Outcome: 1.2, 4.4
	Blooms Taxonomy: Remember
	Difficulty: Medium
	Feldman - Chapter 02 #115 Learning Outcome: 5-2
116. <i>(p. 56)</i>	is a chemical message that prevents or decreases the likelihood that a receiving neuron
()	will fire.
	Inhibitory message
	APA Goal Outcome: 1.2

117. After a long run, Aaron sometimes experiences a feeling of euphoria, a "runners' hig				
(p. 58)	reflecting the activity of neurotransmitters called			
	andarphina			
	<u>endorphins</u>			
	APA Goal Outo	come: 1.2, 4.		
	Blooms Tax			
	Diffic Feldman - Cha	culty: Mediun apter 02 #11		
		Outcome: 5-		
118.	neurons transmit information from the perimeter of the body to the central nervol	us		
(p. 62)	system.			
	<u>Afferent</u>			
	APA Goal	Outcome: 1.2		
	Blooms Taxonom	y: Remembe		
		iculty: Difficu		
	Feldman - Cha Learning	Outcome: 6-		
119.	The somatic nervous system regulates voluntary movement; in contrast, thener	vous		
(p. 62)	system underlies involuntary movement.			
	autonomic			
	APA Goal	Outcome: 1.2		
	Blooms Taxonom			
	Dittion Feldman - Cha	culty: Mediun apter 02 #11:		
		Outcome: 6-		
120.	Arif's heart rate and respiration are slowing, and his dilated pupils are contracting. His			
(p. 62-63)	<sup>3)</sup> nervous system has become active.			
	parasympathetic			

Blooms Taxonomy: Apply
Difficulty: Medium
Feldman - Chapter 02 #120
Learning Outcome: 6-1

121.	is the branch of psychology that seeks to identify how behavior is influenced and		
(p. 63)	produced by our genetic inheritance from our ancestors.		
	Evolutionary psychology		
	APA Goal Outcome: 1.: Blooms Taxonomy: Remembe Difficulty: Eas Feldman - Chapter 02 #12 Learning Outcome: 6-		
122. (p. 64)	The tinygland is known as the "master gland."		
	pituitary		
	APA Goal Outcome: 1 Blooms Taxonomy: Remembe Difficulty: Eas Feldman - Chapter 02 #12. Learning Outcome: 6		
123. (p. 69)	A technique calledrecords the brain's electrical activity through electrodes.		

**EEG** (electroencephalogram)

APA Goal Outcome: 1.2, 2.2 Blooms Taxonomy: Remember

Difficulty: Easy

Feldman - Chapter 02 #123

124.	Wilma has been experiencing memory difficulties, and her doctor is concerned that Wilma may		
(p. 69)	have a brain tumor. He recommends a(n)to confirm his diagnosis.		
	PET (positron emission tomography)		
	APA Goal Outcome: 1.2, 4.2  Blooms Taxonomy: Apply  Difficulty: Medium  Feldman - Chapter 02 #124		
	Learning Outcome: 7-1		
125. (p. 70)	Extending from the medulla, through the midbrain, into the forebrain is the, which serves to regulate general bodily arousal.		
	reticular formation		
	APA Goal Outcome: 1.2 Blooms Taxonomy: Remember Difficulty: Medium Feldman - Chapter 02 #125 Learning Outcome: 7-2		
126. (p. 72)	Information travels from our sensory receptors to thein the brain, which relays it to higher association areas.		
	<u>thalamus</u>		
	APA Goal Outcome: 1.2 Blooms Taxonomy: Remembe Difficulty: Medium Feldman - Chapter 02 #126 Learning Outcome: 7-2		
127. (p. 73)	The amygdala and hippocampus are found within the brain'ssystem.		
	<u>limbic</u>		

APA Goal Outcome: 1.2
Blooms Taxonomy: Remember

Difficulty: Easy

Feldman - Chapter 02 #127

Learning Outcome: 7-2

128.	Epileptics have sometimes had portions of their limbic system removed. Subsequent memory		
(p. 73)	problems may reflect damage to the		
	<u>hippocampus</u>		
	APA Goal Outcome: 1.2, 4.2		
	Blooms Taxonomy: Understand		
	Difficulty: Medium		
	Feldman - Chapter 02 #128 Learning Outcome: 7-2		
	Learning Outcome. 7-2		
129. (p. 74)	The cortex has four major sections called		
	<u>lobes</u>		
	APA Goal Outcome: 1.2		
	Blooms Taxonomy: Remember		
	Difficulty: Medium		
	Feldman - Chapter 02 #129 Learning Outcome: 7-2		
	Learning Outcome. 7-2		
130. Thearea in the parietal lobe encompasses specific locations associated with			
(p. 75)	to perceive touch and pressure in a particular area of the body.		

somatosensory

APA Goal Outcome: 1.2 Blooms Taxonomy: Remember Difficulty: Medium Feldman - Chapter 02 #130

131. New neurons are created even during adulthood, in a process called\_\_\_\_\_. (p. 77)

## neurogenesis

APA Goal Outcome: 1.2
Blooms Taxonomy: Remember
Difficulty: Medium
Feldman - Chapter 02 #131
Learning Outcome: 7-2

132. Vance has learned to voluntarily control the activation of his autonomic nervous system as 
(p. 82) part of the treatment for an anxiety disorder. This is an example of\_\_\_\_\_.

## biofeedback

APA Goal Outcome: 1.2, 4.2
Blooms Taxonomy: Apply
Difficulty: Medium
Feldman - Chapter 02 #132
Learning Outcome: 7-4

133. Draw a typical neuron and label its major parts accurately. Briefly identify the functions of the (p. 51-52) parts labeled on your diagram.

The drawing should contain: (a) dendrites, which should appear as clusters of branchlike extensions from the cell body; (b) the cell body, which should appear as a roundish structure in the center of the diagram; (c) the axon, which should appear as a long tube extending from the cell body; and (d) myelin, which should appear bracketing portions of the axon. The diagram should also include a terminal button, a bulblike ending to the axon.

The function of the following structures should be described. Dendrites—receive information from other neurons. Axon—sends message to another neuron. Myelin—insulates one axon from another and speeds neural transmission.

134. Briefly discuss what mirror neurons are, how they work and what implications this recent

(p. 54) discovery may hold for future research. What are the evolutionary implications for mirror

neurons existence?

Mirror neurons are neurons that fire not only when a person enacts a particular behavior but

also when a person simply observes another individual carrying out the same behavior. Mirror

neurons may help explain how (and why) humans have the capacity to understand others'

intentions. Specifically, mirror neurons may fire when we view someone doing something,

helping us to predict what their goals are and what they may do next.

The discovery of mirror neurons suggests that the capacity of even young children to imitate

others may be an inborn behavior. Furthermore, mirror neurons may be at the root of empathy—

those feelings of concern, compassion, and sympathy for others-and even the

development of language in humans.

APA Goal Outcome: 1.2, 7.1

Blooms Taxonomy: Understand

Difficulty: Medium

Feldman - Chapter 02 #134

135. Outline the sequence of events that occurs at the synapse when a neural message is (p. 56-57) communicated.

The answer should include the following steps in the sequence: (1) neurotransmitters are produced and stored in the axon. An action potential reaches the end of the axon, or the terminal button; (2) If an action potential arrives, the potential stimulates the release of neurotransmitter molecules from vesicles within the terminal button; (3) the neurotransmitter molecules float passively across the gap between the terminal button of the sending neuron and the dendrites of the receiving neuron; (4) the molecules fit into specialized receptor sites on the dendrites of the receiving neuron; making (5) the receiving neuron either more or less likely to produce its own action potential, depending on the neurotransmitter.

APA Goal Outcome: 1.2
Blooms Taxonomy: Remember
Difficulty: Medium

Feldman - Chapter 02 #135

Neurotransmitters are chemicals that carry messages across the synapse to a dendrite (and sometimes the cell body) of a receiving neuron. The chemical mode of message transmission that occurs between neurons is strikingly different from the means by which communication occurs inside neurons: Although messages travel in electrical form within a neuron, they move between neurons through a chemical transmission system.

There are several types of neurotransmitters, and not all neurons are capable of receiving the chemical message carried by a particular neurotransmitter. In the same way that a jigsaw puzzle piece can fit in only one specific location in a puzzle, each kind of neurotransmitter has a distinctive configuration that allows it to fit into a specific type of receptor site on the receiving neuron. It is only when a neurotransmitter fits precisely into a receptor site that successful chemical communication is possible.

If a neurotransmitter does fit into a site on the receiving neuron, the chemical message it delivers is basically one of two types: excitatory or inhibitory.

APA Goal Outcome: 1.2
Blooms Taxonomy: Understand
Difficulty: Easy

Feldman - Chapter 02 #136

137. Identify and describe any three neurotransmitters, using specific examples.

(p. 57-58)

Students' answers may vary.

The answer should include three of the following neurotransmitters. At least one of the functions or domains listed for each of the three neurotransmitters should be mentioned, ideally in a personalized example.

Acetylcholine-movement of skeletal muscles; memoryGlutamatememory

GABA-eating and aggression; affected by alcohol

Dopamine—involved in movement, attention, learning and reinforcementSerotonin—regulates sleep, mood, eating, depression

Endorphins-the brain's natural painkiller; may produce euphoric feelings

APA Goal Outcome: 1.2, 4.4
Blooms Taxonomy: Understand
Difficulty: Medium
Feldman - Chapter 02 #137
Learning Outcome: 5-3

138. Identify how abnormal levels of specific neurotransmitters may be involved in each of these (p. 57-58) disorders: Alzheimer's disease, Parkinson's disease, and schizophrenia.

The answer should include the following:

Alzheimer's disease - diminished production of acetylcholine Parkinson's disease - abnormally low levels of dopamine Schizophrenia - abnormally high levels of dopamine

Difficulty: Easy

Feldman - Chapter 02 #138

Learning Outcome: 5-3

139. Diagram and describe the peripheral nervous system. Make sure to include descriptions or

(p. 62) examples that illustrate understanding.

Students' examples may vary.

The peripheral nervous system branches out from the spinal cord and brain and reaches the

extremities of the body. Made up of neurons with long axons and dendrites, the peripheral

nervous system encompasses all the parts of the nervous system other than the brain and

spinal cord. There are two major divisions-the somatic division and the autonomic division-

both of which connect the central nervous system with the sense organs, muscles, glands,

and other organs.

The somatic division specializes in the control of voluntary movements—such as the motion of

the eyes to read this sentence or those of the hand to turn this page—and the communication

of information to and from the sense organs. The autonomic division controls the parts of the

body that keep us alive—the heart, blood vessels, glands, lungs, and other organs that

function involuntarily without our awareness.

APA Goal Outcome: 1.2, 4.4

Blooms Taxonomy: Understand

Difficulty: Medium

Feldman - Chapter 02 #139

140. Distinguish between the sympathetic and the parasympathetic divisions of the autonomic

<sup>(p. 62-63)</sup> nervous system. For each division, provide an example of a situation in which the division

would become active. Describe the effects on several bodily processes of the activity of each

division.

Students' examples may vary.

The answer should contain the following information:

The sympathetic nervous system acts to prepare the body for action in stressful situations by

mobilizing the organism's resources to "fight" or "flee."

The parasympathetic nervous system acts to calm the body once a stressful situation or

emergency has ended. It allows the body to store energy.

The sympathetic nervous system becomes active in such "fight-or-flight" situations as spotting

a threatening stranger in a desolate parking garage, being involved in a near-accident on the

road, and so on.

The parasympathetic nervous system becomes active in calm, restful situations such as

relaxing after dinner or resting in bed before falling asleep.

Signs of sympathetic nervous system activity are increased heart rate, inhibited digestion,

dilated pupils, shallow breathing.

Signs of parasympathetic nervous system activity are decreased heart rate, facilitated

digestion, constricted pupils, slowed respiration.

APA Goal Outcome: 1.2, 4.4

Blooms Taxonomy: Understand

Difficulty: Medium

Feldman - Chapter 02 #140

141. Define what evolutionary psychology. Using language as an example, describe how an <sup>(p. 63-64)</sup> evolutionary psychologist would explain, describe and study this function.

Evolutionary psychology is the branch of psychology that seeks to identify how behavior is influenced and produced by our genetic inheritance from our ancestors. Evolutionary psychologists argue that the course of evolution is reflected in the structure and functioning of the nervous system and that evolutionary factors consequently have a significant influence on our everyday behavior. Their work, in conjunction with the research of scientists studying genetics, biochemistry, and medicine, has led to an understanding of how our behavior is affected by heredity, our genetically determined heritage. Evolutionary psychologists have spawned a new and increasingly influential field: behavioral genetics. Consistent with the evolutionary perspective, behavioral genetics researchers are finding increasing evidence that cognitive abilities, personality traits, sexual orientation, and psychological disorders are determined to some extent by genetic factors.

APA Goal Outcome: 1.2, 4.2, 4.5
Blooms Taxonomy: Understand
Difficulty: Medium
Feldman - Chapter 02 #141
Learning Outcome: 6-1

142. Identify six components of the endocrine system. State the hormone(s) each component produces. Identify the functions of these hormones.

Students' answers may vary.

The answer should mention several of the following:

Adrenal medulla: produces epinephrine and norepinephrine, which underlie the fight-or-flight response

Adrenal cortex: makes aldosterone, which regulates sodium and potassium balance in the blood

Pancreas: produces insulin

Posterior pituitary gland: secretes oxytocin, which facilitates birthing, bonding, and the development of trust

Pineal gland: produces melatonin, which regulates daily rhythms

Parathyroid gland: produces parathyroid hormone, which increases blood calcium

Thyroid gland: produces thyroid hormone, which regulates metabolism and growth

Ovaries: produce progesterone, which controls reproduction in females

Testes: produce testosterone, which controls reproduction in males

APA Goal Outcome: 1.2
Blooms Taxonomy: Remember
Difficulty: Medium
Feldman - Chapter 02 #142

143. List and describe the brain imaging techniques.

(p. 69-70)

Three of the following techniques should be identified; a description of the diagnostic utility of each technique should follow.

Electroencephalogram (EEG)—facilitates the diagnosis of epilepsy and learning disabilities Positron emission tomography (PET)—may help identify the presence of brain tumors Functional magnetic resonance imaging (fMRI)—has improved the diagnosis of many ailments, including strokes, multiple sclerosis, and Alzheimer's disease Transcranial magnetic stimulation (TMS) imaging—may allow the treatment of certain psychological disorders, such as depression and schizophrenia

APA Goal Outcome: 1.2, 2.2, 4.2
Blooms Taxonomy: Remember
Difficulty: Medium
Feldman - Chapter 02 #143
Learning Outcome: 7-1

144. Identify and describe the "old brain" structures or areas. Illustrate the function of each area.

(p. 70, 72)

area.

The "old brain" is the brain's central core. Three of the following structures should be identified. Damage or deterioration should lead to impairment of the function listed for a given

Medulla regulates breathing and heart rate.

Pons regulates sleep; coordinates movement between the right and left sides of the body.

Cerebellum controls body balance; coordinates movement.

Reticular formation—regulates alertness; when awake, produces arousal to outside stimulation; when asleep, filters out distracting background stimuli.

Thalamus-acts as a relay station for information from the senses.

Hypothalamus—maintains homeostasis, a steady internal state for the body; produces and regulates survival-related behavior, such as eating, self-protection, and sex.

APA Goal Outcome: 1.2, 4.2
Blooms Taxonomy: Understand
Difficulty: Medium

Feldman - Chapter 02 #144

145. Review recent research investigating the effects of gender and culture on brain structure and (p. 80) function.

Young girls show earlier development in the frontal lobes, which control aggressiveness and language development. On the other hand, boys' brains develop faster in the visual region that facilitates visual and spatial tasks such as geometry. Furthermore, most males tend to show greater lateralization of language in the left hemisphere. For them, language is clearly relegated largely to the left side of the brain. In contrast, women display less lateralization, with language abilities apt to be more evenly divided between the two hemispheres. Such differences in brain lateralization may account, in part, for the superiority often displayed by females on certain measures of verbal skills, such as the onset and fluency of speech. Other research suggests that men's brains are somewhat bigger than women's brains even after taking differences in body size into account. In contrast, part of the corpus callosum, a bundle of fibers that connects the hemispheres of the brain, is proportionally larger in women than in men.

Culture also gives rise to differences in brain lateralization. Native speakers of Japanese seem to process information regarding vowel sounds primarily in the brain's left hemisphere. In contrast, North and South Americans, Europeans, and individuals of Japanese ancestry who learn Japanese later in life handle vowel sounds principally in the right hemisphere. One explanation for this difference is that certain characteristics of the Japanese language, such as the ability to express complex ideas by using only vowel sounds, result in the development of a specific type of brain lateralization in native speakers

APA Goal Outcome: 1.2, 5.5, 8.2 Blooms Taxonomy: Understand

Difficulty: Medium

Feldman - Chapter 02 #145

146. What is biofeedback? Describe the procedure and identify some of the physical and psychological disorders where it is applied.

Biofeedback is a procedure in which a person learns to control through conscious thought internal physiological processes such as blood pressure, heart and respiration rate, skin temperature, sweating, and the constriction of particular muscles. Although it traditionally had been thought that the heart rate, respiration rate, blood pressure, and other bodily functions are under the control of parts of the brain over which we have no influence, psychologists have discovered that these responses are actually susceptible to voluntary control. In biofeedback, a person is hooked up to electronic devices that provide continuous feedback relating to the physiological response in question. For instance, someone trying to control headaches through biofeedback might have electronic sensors placed on certain muscles on her head and learn to control the constriction and relaxation of those muscles. Later, when she felt a headache starting, she could relax the relevant muscles and abort the pain. Although the control of physiological processes through the use of biofeedback is not easy to learn, it has been employed with success in a variety of ailments, including emotional problems (such as anxiety, depression, phobias, tension headaches, insomnia, and hyperactivity), physical illnesses with a psychological component (such as asthma, high blood pressure, ulcers, muscle spasms, and migraine headaches), and physical problems.

APA Goal Outcome: 1.2, 4.2
Blooms Taxonomy: Remember
Difficulty: Easy
Feldman - Chapter 02 #146
Learning Outcome: 7-4

## Chapter 2 Summary

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