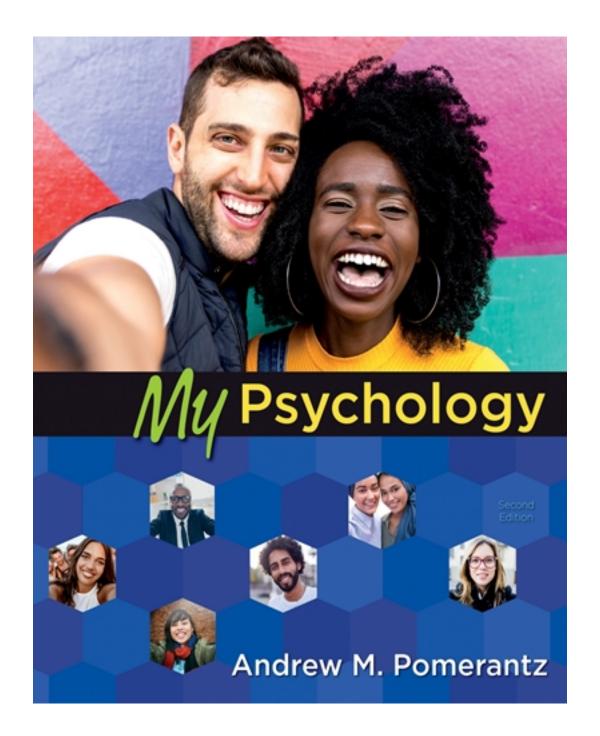
# Test Bank for My Psychology 2nd Edition by Pomerantz

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# Test Bank

Name:	Class:	Date:
<b>Chapter 02: Multiple Choice</b>		
<ol> <li>Phineas Gage's brain injury and the au         <ol> <li>localization.</li> <li>association areas.</li> <li>phrenology.</li> </ol> </li> </ol>	itopsy on Paul Broca's stroke patient	provided evidence for the idea of:
d. the nervous system.  ANSWER: a		
2. After Phineas Gage's brain injury, his a. ability to form new memories b. ability to produce fluent speech c. personality characteristics d. coordination and balance ANSWER: c	basic abilities remained intact but his	s changed significantly.
<ul> <li>3. Yasmina was in a horse-riding accided by Phineas Gage. As a result, you would a coordination and balance.</li> <li>b. personality characteristics.</li> <li>c. ability to form new memories.</li> <li>d. level of intelligence.</li> </ul>		
ANSWER: b		
4. The brain area damaged in Phineas Gaa. decision making and managing erb. storing new and recalling old merc. producing fluent and meaningfuld. allowing the production of mover	motion. mories. speech.	e for:
ANSWER: a		
<ul><li>5. Damage to impairs a person's a</li><li>a. Broca's area</li><li>b. the occipital cortex</li><li>c. the hippocampus</li><li>d. Gage's area</li></ul>	ability to speak.	
ANSWER: a		
6. Kelsey was involved in a car accident that Kelsey will MOST likely have: a. an impaired ability to speak. b. significant personality changes.	that damaged the part of their brain of	called Broca's area. This means

c. issues forming new memories.

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	-	

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d. decreased intelligence.

ANSWER: a

- 7. Broca's area is associated with the ability to:
  - a. see.
  - b. speak.
  - c. hear.
  - d. taste.

ANSWER: b

- 8. In your psychology class, you learned about the famous case in which railroad worker Phineas Gage suffered a severe head injury. An iron rod he was using hit blasting powder, causing the rod to shoot up and through his head. Phineas Gage survived with his basic abilities intact, although his personality underwent a profound change. Phineas Gage's case BEST illustrates the idea that:
  - a. specific parts of the brain correspond to specific functions.
  - b. the brain adapts its functioning in response to damage.
  - c. new neurons are created after the brain has been damaged.
  - d. damage to the brainstem can cause personality change.

ANSWER: a

- 9. Scientists who believe that specific parts of the brain are responsible for specific functions and abilities are supported in this belief by:
  - a. the inability of split-brain surgery to treat severe epilepsy.
  - b. Phineas Gage's change in personality after sustaining a severe head injury.
  - c. the ability of the brain to adapt its structure or function in response to damage.
  - d. the discovery that new neurons are created by the brain after injury.

ANSWER: b

- 10. In an abnormal psychology class, you had a guest speaker from a local rehabilitation center that specializes in patients with brain injuries. The speaker discussed the case of a patient who suffered a stroke and lost the ability to speak. However, all of this patient's other abilities remained entirely intact. It is MOST likely that the stroke damaged which part of the patient's brain?
  - a. corpus callosum
  - b. hypothalamus
  - c. Broca's area
  - d. Wernicke's area

ANSWER: c

- 11. Dr. Emerson is a neurologist who studies the brain and how it functions. Dr. Emerson is particularly interested in the part of the brain that affects a person's ability to speak when it has been damaged. The part of the brain Dr. Emerson is interested in is:
  - a. the corpus callosum.

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b. the amygdala.		
c. Wernicke's area.		
d. Broca's area.		
ANSWER: d		
12. Your psychology instructor suggests the would fall in this category?	aat you first learn the microscopic	activity of the brain. Which topic
a. the role of the amygdala in expressi	ng emotion	
b. how the endocrine and nervous systematical	ems interact	
c. how neurons send and receive inform	mation	
d. how the hippocampus participates in	n memory	
ANSWER: c		
13. A neuron is:		
a. a cell that facilitates communication	ı <b>.</b>	
b. a chemical that is used for signaling		
c. the gap between connecting cells.		
d. the substance that insulates the signa	aling portion of cells.	
ANSWER: a		
14. Cells that facilitate communication wit a. dendrites.	hin the nervous system are called:	
b. neurons.		
c. axons.		
d. action potentials.		
ANSWER: b		
15 are the building blocks of the br	ain.	
a. Hormones		
b. Synapses		
c. Neurons		
d. Neurotransmitters		
ANSWER: c		
16. A newly discovered life form was foun communication within its nervous system.		
a. hormones.		
b. neurons.		
c. corpus callosum.		
d. cerebral hemispheres.		

ANSWER: b

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17. In a recent study, scientists analyzed has compared to those without the disorder. To which are cells that are responsible for compared as neurons	he scientists were specifically in	*
b. neurotransmitters		
c. synapses		
d. axons		
ANSWER: a		
18. Lknarf Industries is a large, multination Lknarf Industries use an internal messaging efficiently with one another. The company a. nervous system.	ng system which allows them to	communicate quickly, easily, and
b. corpus callosum.		
c. cerebral hemispheres.		
d. endocrine system.		
ANSWER: a		
19. At a busy intersection, a police officer officer, who is responsible for communication similar to the role of in brain function a. neurotransmitters	ating to drivers how to proceed.	• • •
b. neurons		
c. glands		
d. the endocrine system		
ANSWER: b		
<ul><li>20. Your brain contains approximately</li><li>a. 1</li><li>b. 10</li><li>c. 100</li><li>d. 500</li></ul>	billion neurons.	
ANSWER: c		
ANSWER: C		
21. The majority of the neurons in your bra. receive sensory input.	rain:	
b. connect other neurons.		
c. send motor commands.		
d. facilitate reflexes.		
ANSWER: b		

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22. Interneurons:		
a. receive sensory information.		
b. produce and secrete hormones.		
c. directly produce motor movement.		
d. connect neurons to each other.		
ANSWER: d		
23. A neuron that connects only to nearby	neurons is a(n):	
a. sensory neuron.		
b. interneuron.		
c. motor neuron.		
d. glial cell.		
ANSWER: b		
24. When at sea, ships use flags to comm to communicate with ships farther away.  a. neurotransmitters	-	•
b. glial cells		
c. interneurons		
d. synapses		
ANSWER: c		
25. When Shana listens to a symphony at it is processed before traveling onward to within Shana's thalamus is MOST likely	her auditory cortex and hippocam	
a. afferent neurons.		
b. interneurons.		
c. endocrine hormones.		
d. motor neurons.		
ANSWER: b		
26. Sensory neurons are also called:		
a. afferent neurons.		
b. interneurons.		
c. efferent neurons.		
d. motor neurons.		
ANSWER: a		
27 send information to your brain	from your senses.	
a. Efferent neurons		
b. Motor neurons		

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c. Afferent neurons		
d. Glial cells		
ANSWER: c		
28. When Antonio smelled a rose, neurowas MOST likely carried by:	ons carried the information about the	e smell to his brain. This information
a. afferent neurons.		
b. motor neurons.		
c. efferent neurons.		
d. endocrine cells.		
ANSWER: a		
29. When reaching into your book bag, you feel when this happens is communi a. glial cells.		e sharp point of a pencil. The pain
b. interneurons.		
c. motor neurons.		
d. sensory neurons.		
ANSWER: d		
30. When reaching into your book bag, immediately move your hand away from communicated to your muscles from your	n the source of pain. The ability to r	* * *
a. hormones.		
b. glia cells.		
c. motor neurons.		
d. sensory neurons.		
ANSWER: c		
31. Motor neurons are also called:		
a. afferent neurons.		
b. interneurons.		
c. efferent neurons.		
d. sensory neurons.		
ANSWER: c		
32 send information from your l	brain to your muscles.	
a. Sensory neurons	<b>3</b>	
b. Motor neurons		
c. Afferent neurons		
d. Glial cells		

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ANSWER: b		
33. Sandra took a sip of spoiled milk and MOST directly due to the activity of her: a. afferent neurons.	* -	ty to spit the milk out so quickly is
b. interneurons.		
c. efferent neurons.		
d. sensory neurons.		
ANSWER: c		
34. Paula has multiple sclerosis, and she with her hands. Her inability to feel the that affecting her:  a. glia cells.		
b. interneurons.		
c. efferent neurons.		
d. sensory neurons.		
ANSWER: d		
35. In amyotrophic lateral sclerosis (also brain to muscles, also known as, b a. glial cells		
b. interneurons		
c. efferent neurons		
d. sensory neurons		
ANSWER: c		
36. As you were riding to school with yo dashboard fell when the car stopped sudd bobble-head before it fell to the floorboar a. motor neurons.	enly at a red light. Without thinki	ing, you reached out and caught the
b. glial cells.		
c. interneurons.		
d. sensory neurons.		
ANSWER: a		
111577 <u>211. u</u>		
37 carry messages to your brain,	whereas carry messages fro	om your brain.
a. Sensory neurons; motor neurons		
b. Motor neurons; sensory neurons		
c. Interneurons; glial cells		
d. Glial cells; interneurons		
ANSWER: a		

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38. A(n) is an automatic motor rea. efferent movement	sponse to sensory input.	
b. afferent reaction		
c. action potential		
d. reflex		
ANSWER: d		
39. When Linda's doctor hits her knee winvoluntary movement of Linda's knee i		ntarily jerks forward. The
a. spasm.		
b. contraction.		
c. action potential.		
d. reflex.		
ANSWER: d		
40. Which statement is true about reflex a. Reflexes take anywhere from a fe		
b. Reflexes are involuntary, automa	tic motor responses to sensory input.	
c. Reflexes are voluntary, controlled		
d. Reflexes are learned reactions to		
ANSWER: b	·	
41. The is the part of the neuron to a. dendrite	hat performs basic cellular activities	i.
b. soma		
c. axon		
d. axon terminal		
ANSWER: b		
42. The soma of a neuron:		
a. performs basic cellular activities.		
b. carries information toward other		
c. forms connections with the next i		
d. receives information from a previ	ous neuron.	
ANSWER: a		
43. The is the central region of the properly.	e neuron, which performs the basic a	activities that keep it functioning
a. axon		
b. cell body		

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c. myelin sheath		
d. synapse		
ANSWER: b		
44. The cell body of a neuron:		
a. performs the basic activities that	keep a neuron functional.	
b. receives signals sent from other i	neurons.	
c. forms connections with other neu	irons.	
d. supports and protects neurons.		
ANSWER: a		
45. In your body, the digestive system a allow your body to function. The part o is the:		
a. axon.		
b. cell body.		
c. myelin sheath.		
d. synapse.		
ANSWER: b		
46. In a car, the motor or engine provid operated. The part of the neuron that co a. axon.		
b. cell body.		
c. myelin sheath.		
d. synapse.		
ANSWER: b		
47. The is the part of the neuron a. cell body	that carries information toward other	r neurons.
b. dendrite		
c. axon terminal		
d. axon		
ANSWER: d		
48. The axon:		
a. performs the basic activities that	keep a neuron functional.	
b. receives signals from other neuro	ons.	
c forms direct connections with of	ner neurons	

ANSWER: d

d. carries information toward other neurons.

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49. At many pharmacy drive-throughs, cust When a customer arrives, they place their then transported via the tube inside to the pneuron?	prescription in the tube and the	hen press a button. The prescription is
a. cell body		
b. myelin sheath		
c. dendrite		
d. axon		
ANSWER: d		
50. The small branches that form connection	ons with the next neuron are	called:
a. dendrites.		
b. cell bodies.		
c. neurotransmitters.		
d. axon terminals.		
ANSWER: d		
51. The axon terminals of a neuron:		
a. perform basic cellular activities.		
b. carry information toward other neur	rons.	
c. form connections with the next neur	ron.	
d. receive information from another ne	euron.	
ANSWER: c		
52. Neurons send information via their a. axon terminals; dendrites	and receive information v	via their
b. dendrites; axon terminals		
c. synapse; dendrites		
d. dendrites; cell body		
ANSWER: a		
53. Information being sent to other neuron connections with the next neuron.	s travels along the bef	ore reaching the, which forms
a. dendrites; axon terminals		
b. axon; dendrites		
c. axon; axon terminals		
d. cell body; dendrites		
ANSWER: c		
54. Alicia sent a text to her friend Crystal	letting her know that she coul	ld not meet her to go to the movies as
planned. Crystal received this information operates MOST similarly to the of t	in her e-mail inbox. Alicia se	

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a. synaptic vesicles		
b. soma		
c. dendrites		
d. axon terminals		
ANSWER: d		
55. The myelin sheath of a neuron:		
a. speeds its communication.		
b. slows its communication.		
c. covers the dendrites and soma.		
d. restricts the reuptake process.		
ANSWER: a		
<ul><li>56 cover(s) the axons of a neuron, he</li><li>a. Dendrites</li><li>b. Axon terminals</li></ul>	elping messages travel quickly	and efficiently.
c. Receptors		
d. Myelin		
ANSWER: d		
57. Multiple sclerosis breaks down a neuron	's, which is a fatty mate	erial that surrounds a neuron's axon.
a. synapse		
b. histamine		
c. threshold		
d. myelin		
ANSWER: d		
58. Multiple sclerosis causes deterioration o sensation.	f a neuron's, which resu	ults in problems with movement and
a. dendrites		
b. axon terminals		
c. myelin sheath		
d. neurotransmitters		
ANSWER: c		
59. Shana has multiple sclerosis. This means	s that her neurons' will	deteriorate over time.
a. dendrites		
b. axon terminals		
c. myelin		
d. neurotransmitters		
ANSWER: c		

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60. Danielle has a disease that decreases MOST likely has:	both incoming messages from the	senses and her ability to move. She
a. multiple sclerosis.		
b. Broca's aphasia.		
c. anterograde amnesia.		
d. Wernicke's aphasia.		
ANSWER: a		
61. Glial cells:		
a. break down a neuron's myelin she	ath.	
b. receive and send information.		
c. support and protect neurons.		
d. release neurotransmitters.		
ANSWER: c		
62. Which statement about glial cells is t	rue?	
a. Glial cells create myelin sheaths.		
b. Glial cells receive and send inform	nation between neurons.	
c. Glial cells send sensory messages	to the brain.	
d. Glial cells produce action potentia	ıls.	
ANSWER: a		
63. The dendrites of a neuron:		
a. perform basic cellular activities.		
b. carry information toward other ne	urons.	
c. form connections with the next ne	euron.	
d. receive information from other ne	urons.	
ANSWER: d		
64 are branches at the end of neu a. Axon terminals	rons that receive signals from other	r neurons.
b. Synapses		
c. Dendrites		
d. Myelin sheaths		
ANSWER: c		
65. Naomi sent an e-mail to Professor Luinformation in her e-mail inbox. Professot to the of a neuron.  a. synaptic vesicles	<u> </u>	
b. soma		

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c. dendrites		
d. axon terminals		
ANSWER: c		
66. Your letter carrier delivers mail to the the of the neuron.	e mailbox where you live. Your mai	ilbox functions in the same way as
a. synaptic vesicles		
b. soma		
c. dendrites		
d. axon terminals		
ANSWER: c		
67. Neurotransmitters must travel across a. glial cells	to reach the next neuron.	
b. the synapse		
c. receptor sites		
d. the soma		
ANSWER: b		
68. A synapse is:		
a. a saclike container packed with ne	urotransmitters	
b. a neurotransmitter receptor.	<del>0.2</del> 0 <del>1.2 0.1.2</del> 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.2 0.1.	
c. the gap between neurons.		
d. a space between myelin on the axo	nn	
ANSWER: c	711.	
69. Dr. O'Connor discovered a new speci the neurons communicate via direct conta neurons.  a. glial cells b. synapses c. receptor sites d. axons		
ANSWER: b		
THIS WEIGHT		
70 are the chemical messengers in a. Synaptic vesicles	the nervous system that travel acro	oss the synapses between neurons.
b. Action potentials		
c. Neurotransmitters		
d. Hormones		
ANSWER: c		

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71. Neurotransmitters are: a. cells that carry information to the	brain.	
b. chemical messengers that travel a		o the next.
c. electrical impulses that cause a no	• •	
d. chemical messengers sent through		
ANSWER: b	·	
72. Dr. Pahz studies the effect of chemic pain. Dr. Pahz MOST likely studies:	cals produced by the brain on a per-	rson's mood and their perception of
a. synaptic vesicles.		
b. action potentials.		
c. neurotransmitters.		
d. hormones.		
ANSWER: c		
73. Endorphins are:		
a. saclike containers for neurotransr	nitters.	
b. openings for neurotransmitters in	dendrites.	
c. spaces that neurotransmitters mus	st cross between neurons.	
d. neurotransmitters involved in red	ucing pain and increasing pleasure	
ANSWER: d		
74. The "high" that runners feel during a histamine.	narathons MOST likely results from	m the release of:
b. endorphins.		
c. GABA.		
d. epinephrine.		
ANSWER: b		
75. Alberto's grandfather has Parkinson' Alberto's grandfather takes increases his a. dopamine		
b. GABA		
c. epinephrine		
d. serotonin		
ANSWER: a		
76. Which neurotransmitter is most invo	olved in sleep?	
a. dopamine	1	
b. acetylcholine		
c. epinephrine		

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d. serotonin		
ANSWER: d		
77. As individuals age, they need fewe neurotransmitter:  a. dopamine.	r hours of sleep. This is MOST likely	y due to changes in the levels of the
b. acetylcholine.		
c. epinephrine.		
d. serotonin.  ANSWER: d		
78. The neurotransmitter that is MOST a. dopamine.	involved in the fight-or-flight respon	nse is:
b. GABA.		
c. epinephrine.		
d. serotonin.  ANSWER: c		
ANSWER. C		
79. Cynthia just rode a roller coaster wand she feels shaky and breathless. The response to riding the roller coaster is:  a. GABA.	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
b. acetylcholine.		
<ul><li>c. epinephrine.</li><li>d. serotonin.</li></ul>		
ANSWER: c		
<ol> <li>Scientists would MOST likely man remember better.</li> <li>a. GABA</li> </ol>	ipulate the signaling of in ord	er to make a mouse learn faster and
b. glutamate		
c. epinephrine		
d. serotonin		
ANSWER: b		
and well		
81. At times, Stanley feels more anxioupsychiatrist prescribed Stanley medicine MOST likely address which neurotrans	e to help with his anxiety during the	<u> </u>
a. dopamine		
b. GABA		
c. acetylcholine		
d. serotonin		

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ANSWER: b		
82. An is a drug that enhances the	ne impact of a neurotransmitter.	
a. efferent		
b. agonist		
c. afferent		
d. antagonist		
ANSWER: b		
83. Parkinson's disease causes tremors dopamine. Thus, to treat Parkinson's, d a. efferent.		
b. agonist.		
c. afferent.		
d. antagonist.		
ANSWER: b		
THIS WELL. U		
84. A drug that interferes with the impa	act of a neurotransmitter is called an:	
a. efferent.		
b. agonist.		
c. afferent.		
d. antagonist.		
ANSWER: d		
85. Schizophrenia is partially caused by schizophrenia, doctors would MOST li	·	naling in the brain. Thus, to treat
a. efferent.		
b. agonist.		
c. afferent.		
d. antagonist.		
ANSWER: d		
86. Morphine is a drug that acts in the smorphine acts as an for endorph	•	orphins do. This suggests that
a. efferent		
b. agonist		
c. afferent		
d. antagonist		
ANSWER: b		
87. Narcan is a drug that can block here that Narcan acts as an for endor		ral endorphin system. This suggests
Conveight Magmillan Lagraina Powered by Cogner	•	Dogo

Name:	Class:	Date:
Chapter 02: Multiple Choice		
a. efferent		
b. agonist		
c. afferent		
d. antagonist		
ANSWER: d		
88. The tiny, saclike containers contain	ning neurotransmitters are called:	
a. receptor sites.		
b. synaptic vesicles.		
c. axon terminals.		
d. dendrites.		
ANSWER: b		
89. A synaptic vesicle is:		
a. a saclike container for neurotran		
b. an opening for neurotransmitter	s in dendrites.	
c. the space neurotransmitters mus	t cross between neurons.	
d. a receptor site in dendrites for ne	eurotransmitters.	
ANSWER: a		
90. Pills are often kept in plastic containing for neurotransmitters.	iners until they are used. A plastic cont	tainer for pills is similar to a(n)
a. synaptic vesicle		
b. myelin sheath		
c. axon terminal		
d. receptor		
ANSWER: a		
91. A receptor site is:		
a. a saclike container for neurotran	smitters.	
b. an opening for specific neurotra		
c. the space neurotransmitters mus		
d. a space between the myelin on t	he axon.	
ANSWER: b		
92 are locations on dendrites th	at match specific neurotransmitters.	
a. Receptor sites		
b. Synaptic vesicles		
c. Axon terminals		
d. Somas		

ANSWER: a

Name:	Class:	Date:
<b>Chapter 02: Multiple Choice</b>		
93. Neurotransmitter action at the next new with neurotransmitters being the key and a. synaptic vesicles b. myelin sheaths c. axon terminals		ting like a lock-and-key system,
d. receptor sites  ANSWER: d		
94. What is the correct order of neurotra a. axon terminal, synapse, receptor s b. axon terminal, receptor site, synapse, c. synapse, axon terminal, receptor s d. receptor site, synapse, refractory p ANSWER: a	site pse site	o the next?
95. The process of reuptake:     a. increases the amount of neurotran b. aids in getting neurotransmitters to c. returns neurotransmitters to the new d. releases neurotransmitters into the ANSWER: c	to receptor sites. euron that released them.	
<ul><li>96. The process that occurs when a neural an eurogenesis.</li><li>b. reuptake.</li><li>c. firing.</li><li>d. refraction.</li></ul> ANSWER: b	otransmitter is taken back up by the	neuron that sent it is called:
97. Reuptake is the:  a. waiting time during which a neuro b. firing of an electrical impulse thro c. the reabsorption of a neurotransm d. creation of new neurons by the br  ANSWER: c	ough the axon. hitter by its sending neuron.	
98. Jeremy baked cookies to celebrate his which he returned to the refrigerator. Re of a neuron.  a. threshold level b. reuptake process		-

Name:	Class:	Date:
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#### **Chapter 02: Multiple Choice**

- c. action potential
- d. refractory period

ANSWER: b

- 99. Which statement is TRUE about the reuptake process? Reuptake:
  - a. occurs when neurotransmitters do not successfully release into the synapse.
  - b. happens when neurotransmitters return to the sending neuron.
  - c. is the process by which neurotransmitters attach to receptor sites.
  - d. causes the firing of an electrical impulse that travels through the axon.

ANSWER: b

- 100. Some antidepressant drugs act by blocking the reuptake of serotonin. The result of these drugs is:
  - a. a decrease in the amount of serotonin released.
  - b. an increase in the amount of serotonin in the synapse.
  - c. more serotonin available to act on glial cells.
  - d. less serotonin to act on neuron receptor sites.

ANSWER: b

- 101. The firing of an electrical impulse that travels through the neuron's axon is called the:
  - a. action potential.
  - b. resting potential.
  - c. refractory period.
  - d. reuptake process.

ANSWER: a

- 102. A neuron's communication process begins with the:
  - a. action potential.
  - b. resting potential.
  - c. refractory period.
  - d. reuptake process.

ANSWER: a

- 103. An action potential is the:
  - a. chemical transmission of information between neurons.
  - b. low-level electrical charge of an inactive neuron.
  - c. firing of an electrical impulse in a neuron.
  - d. waiting time during which a neuron resets.

ANSWER: c

104. Sarah lives in an old house. Sarah wants to update parts of her house, starting with her light switches. Currently, Sarah can only turn the lights all the way on or all the way off. Sarah plans to install switches that

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allow her to adjust the level of has switches operate is MOST similar.  a. action potential. b. resting potential. c. refractory period. d. reuptake process.	ner lights instead of just turning them on or of lar to a neuron's:	ff. The way Sarah's current light
ANSWER: a		
<ul><li>105. The low-level electrical ch</li><li>a. action potential.</li><li>b. resting potential.</li><li>c. refractory period.</li><li>d. reuptake process.</li></ul> ANSWER: b	arge a neuron has when it is not firing is calle	ed the:
b. minimum level of electric c. level of electrical charge	teuron is defined as the: ge in a neuron when it is not firing. cal change necessary to fire a neuron. present necessary to reset a neuron. to begin the neuron's firing process.	
much less energy when not runi	athons. While running, Regan uses a signification, but some is required to keep her going to ST similar to the of a neuron.	
<ul><li>b. low-level electrical charge</li><li>c. firing of an electrical imp</li></ul>	required for a neuron to fire. ge of an inactive neuron.	
109. The action potential of a notation a. resting potential b. action potential	euron is triggered when the is reached.	

Name:	Class:	Date:
<b>Chapter 02: Multiple Choice</b>		
c. refractory period		
d. threshold		
ANSWER: d		
110. When a person has a heart attack, of heart. After the defibrillator is used, a p defibrillator needs to recharge is MOST a. action potential	period of time is needed for it to rech	• 1
b. resting potential		
c. refractory period		
d. reuptake process		
ANSWER: c		
111. When you flush a toilet, you must period is MOST similar to the of	<u>-</u>	et can fully flush again. That waiting
a. action potential		
b. resting potential		
c. refractory period		
d. reuptake process		
ANSWER: c		
112. The of a neuron is the time a. resting potential b. threshold c. action potential	during which a neuron resets its elec	ctrical charge.
d. refractory period <i>ANSWER:</i> d		
113. What is the correct order of electria. resting potential, action potential b. resting potential, refractory period. refractory period, action potential d. action potential, resting potential ANSWER: a	l, refractory period od, action potential ll, resting potential	
b. At rest, neurons have a low-level c. Action potentials operate on the	al depends on the strength of what to l electrical charge. all-or-none principle.	
<ul> <li>113. What is the correct order of electria. resting potential, action potential b. resting potential, refractory period. action potential d. action potential, resting potential. ANSWER: a</li> <li>114. Which statement about a neuron's a. The strength of an action potential b. At rest, neurons have a low-level c. Action potentials operate on the strength of an action potentials.</li> </ul>	I, refractory period od, action potential II, resting potential II, refractory period electrical activity is FALSE? al depends on the strength of what the electrical charge.	

ANSWER: a

Name:	Class:	Date:
Chapter 02: Multiple Choice		
a. In humans, brain connections dep b. In nonhuman animal species, mar c. Compared to other animals, the h d. Compared to other animals, human ANSWER: c	end heavily on experience, especi- ny brain connections are establishe uman brain is overdeveloped at bi	ally early in life. ed by birth.
<ul> <li>116 is the idea that specific parts</li> <li>a. Plasticity</li> <li>b. Neurogenesis</li> <li>c. Localization</li> <li>d. Association</li> </ul> ANSWER: c	of the brain are responsible for sp	pecific behaviors or abilities.
a. specific parts of the brain are resp b. the lobes of the brain work togeth c. the two hemispheres of the brain a d. each lobe of the brain is solely res	oonsible for her to perform are primarily responsible for	ities.
118. Dr. Konitski recently conducted a smemory loss functioned as compared to hippocampus is responsible for specific to the concept of:  a. localization. b. plasticity. c. reuptake. d. specialization.  ANSWER: a	people without memory loss. Dr.	Konitski theorized that the
119. You work at a large factory that material for manufacturing specific parts of the etogether so that the equipment can operate to the concept of brain:  a. localization.  b. plasticity.  c. association.  d. specialization.	quipment. Your job is in the area	of the factory that puts all of the parts

120. Each app on your phone has a certain function—one takes pictures, another sends messages. The way the

ANSWER: a

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1°CC 4	1	· · MOGE	91 ( )1	. (1		

different apps on your phone operate is MOST similar to the concept of brain:

- a. localization.
- b. plasticity.
- c. association.
- d. specialization.

ANSWER: a

- 121. Relatively speaking, the \_\_\_\_\_ of the human brain is larger in humans than in other species.
  - a. top and front
  - b. brainstem
  - c. top and back
  - d. hindbrain

ANSWER: a

- 122. Which statement about brain size across species is true?
  - a. Human brains are bigger at the back and bottom than other species' brains.
  - b. Humans have larger forebrains than other species.
  - c. Reptiles have larger forebrains than birds and mammals.
  - d. Species that evolved more recently have larger brainstems.

ANSWER: b

- 123. Which statement about the brain is FALSE?
  - a. The back and bottom control basic functions.
  - b. The top and front control advanced functions.
  - c. Specific parts of the brain are responsible for specific activities and behaviors.
  - d. Some parts of the brain can function entirely independently from the rest of the brain.

ANSWER: d

- 124. Which statement about the brain is TRUE?
  - a. The back and bottom control advanced functions.
  - b. The top and front control basic functions.
  - c. Specific parts of the brain are responsible for specific activities and behaviors.
  - d. Some parts of the brain can function entirely independently from the rest of the brain.

ANSWER: c

- 125. The main function of the brainstem is to:
  - a. pass along sensory information to other brain areas.
  - b. regulate movement and control coordination.
  - c. maintain basic functions necessary for life.
  - d. facilitate motivation and emotion.

ANSWER: c

Name:	Class:	Date:
Chapter 02: Multiple Choice		
126. Which function is NOT controlled b	y the brainstem?	
a. breathing		
b. heartbeat		
c. memory		
d. swallowing		
ANSWER: c		
127. Which functions are NOT controlled	l by the brainstem?	
a. breathing and heartbeat		
b. attention and arousal		
c. deciding and planning		
d. sneezing and vomiting		
ANSWER: c		
128. If a person sustains severe damage to	o their brainstem, which would be	the MOST likely outcome?
a. impaired memory		
b. death		
c. sensory processing deficits		
d. blindness		
ANSWER: b		
129. Which is NOT a part of the brainster	m?	
a. thalamus		
b. reticular activating system		
c. pons		
d. medulla		
ANSWER: a		
130. During surgery, patients are often pl machines function MOST similarly to wh		breathing and heartbeat. These
a. cerebellum		
b. brainstem		
c. corpus callosum		
d. limbic system		
ANSWER: b		
131. The is the collection of neuro waking.	ns in the brainstem that are involve	ed in alertness, attention, sleep, and
a. reticular activating system		
b. limbic system		

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c. hippocampus		
d. cerebellum		
ANSWER: a		
132. Your professor is discussing the waking. Your professor is MOST like a. limbic system.		in alertness, attention, sleep, and
b. hippocampus.		
c. cerebellum.		
d. reticular activating system.		
ANSWER: d		
133. Which part of the brainstem is in	volved in arousal, alertness, and atten	ntion?
a. thalamus		
b. reticular activating system		
c. pons		
d. medulla		
ANSWER: b		
134. Sophie suffered an injury to her be What part of Sophie's brainstem was Ma. thalamus	±	ing alert and maintaining attention.
b. reticular activating system		
c. pons		
d. medulla		
ANSWER: b		
<ul><li>135. The is the part of the brain a. thalamus</li><li>b. reticular activating system</li><li>c. pons</li></ul>	astem involved in sleeping, breathing,	, and the maintenance of equilibrium.
d. medulla		
ANSWER: c		
136. Santiago suffered an injury to his Santiago's brainstem was MOST likely	<u> =</u>	uintaining equilibrium. What part of
a. thalamus		
b. reticular activating system		
c. pons		
d. medulla		
ANSWER: c		

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137. After a stroke, Raymond experienc stroke MOST likely affect?	eed problems with his equilibrium. Wh	hat part of the brain did Raymond's
a. thalamus		
b. reticular activating system		
c. pons		
d. medulla		
ANSWER: c		
138. The part of the brainstem primarily a. thalamus.	responsible for heartbeat and breathi	ing is the:
b. reticular activating system.		
c. pons.		
d. medulla.		
ANSWER: d		
139. Amanti took a medication that slov a. cortex.	wed his breathing. The medication is M	MOST likely acting on his:
b. cerebellum.		
c. hippocampus.		
d. medulla.		
ANSWER: d		
140. The part of the brainstem primarily a. thalamus.	responsible for heartbeat and breathi	ing is the:
b. reticular activating system.		
c. pons.		
d. medulla.		
ANSWER: d		
141. Which two parts of the brain work	together to control swallowing?	
a. thalamus and hypothalamus		
b. amygdala and hippocampus		
c. pons and medulla		
d. cortex and corpus callosum		
ANSWER: c		
142. The main function of the is	to regulate movement and control coo	ordination.
a. amygdala		
b. hippocampus		
c. cerebellum		
d. brainstem		

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ANSWER: c		
<ul><li>143. The cerebellum is hypothesize</li><li>a. balance.</li><li>b. emotion.</li><li>c. attention.</li><li>d. memory.</li></ul> ANSWER: b	ed to be involved in all these functions EXCl	EPT:
<ul><li>144. The cerebellum is located nea</li><li>a. front</li><li>b. top</li><li>c. base</li><li>d. middle</li></ul> ANSWER: c	r the of the brain.	
145. The is involved in the random a. occipital lobe b. brainstem c. reticular activating system d. cerebellum  ANSWER: d	regulation of movement.	
<ul><li>a. using the correct amount of</li><li>b. producing coherent speech i</li></ul>	mplete a 30-minute cardio workout	difficulty with which task?
147. After an accident, George's abdamaged is his:  a. thalamus. b. cerebellum. c. hippocampus. d. amygdala.  ANSWER: b	pility to walk was impaired. The area of the b	orain George MOST likely
148. Which statement about the cea. is located at the bottom and	rebellum is FALSE? The cerebellum: back of the brain.	

b. is necessary for muscle movements to start.

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c. may play a role in attention and men	mory.	
d. contains 50% of the brain's total ne	•	
ANSWER: b		
149. Jamie is a top-level gymnast. As a gy area of Jamie's brain that is responsible for a. thalamus.		
b. pons.		
c. cerebellum.		
d. amygdala.		
ANSWER: c		
150. The is the brain's main sensory a. limbic system	processing center.	
b. thalamus		
c. cerebellum		
d. pons		
ANSWER: b		
151. The thalamus is located of the a. in the middle b. at the top and front	brain.	
c. at the back and bottom		
d. at the front and bottom		
ANSWER: a		
<ul><li>152. The main function of the thalamus is</li><li>a. process sensory information.</li><li>b. regulate movement coordination.</li><li>c. maintain basic life functions.</li></ul>	to:	
d. process motivation and emotion.		
ANSWER: a		
153. The processes and relays senso	ory information.	
b. endocrine system		
c. limbic system		
d. thalamus		
ANSWER: d		

154. Which is NOT true about the thalamus? The thalamus:

Name:	Class:	Date:
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<ul><li>a. works with the basal ganglia to hel</li><li>b. passes along sensory information to</li><li>c. is located near the center of the brack</li><li>d. is one of the structures that make u</li></ul>	o other brain areas. nin.	
ANSWER: d	1	
a. is involved in motivation. b. is involved in sensory processing. c. surrounds the limbic system. d. is part of the cerebrum.  ANSWER: b	he thalamus:	
a. coordination and movement b. understanding and producing speed c. processing of sensory information d. regulating emotions  ANSWER: c		OST likely be impaired?
157. In class, you learned about a person information from the senses. What part of a. cerebellum b. corpus callosum c. thalamus d. hypothalamus		
ANSWER: c		
158. The is the cluster of brain area emotion.  a. limbic system  b. reticular activating system  c. thalamus d. cerebrum  ANSWER: a	as located near the center of the br	ain that is involved primarily in
159. The main function of the limbic syst a. pass along sensory information to		

b. regulate movement and control coordination.c. maintain basic functions necessary for life.

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#### **Chapter 02: Multiple Choice**

ANSWER: d

160. Which is NOT true about the limbic system? The limbic system:

- a. is surrounded by the thalamus.
- b. is involved in the production of emotion.
- c. initiates feelings of motivation.
- d. includes the amygdala.

ANSWER: a

- 161. Fathima suffered damage to her limbic system. She now has difficulty:
  - a. walking in a straight line.
  - b. producing speech.
  - c. seeing red light.
  - d. feeling motivated.

ANSWER: d

- 162. A type of mouse has been genetically engineered to have an underfunctioning limbic system. The mice have difficulty:
  - a. walking on a narrow, raised beam.
  - b. remembering the path through a maze.
  - c. differentiating between red and green light.
  - d. performing motivated behaviors.

ANSWER: d

- 163. Recently, one of your favorite artists released a new song. This song is about the happiness and sadness of two people who fell in love but eventually broke up. After taking an introductory psychology course, you know that the feelings described in the song are MOST likely regulated by the:
  - a. cerebellum.
  - b. thalamus.
  - c. limbic system.
  - d. reticular activating system.

ANSWER: c

- 164. Which of these is NOT part of the limbic system?
  - a. amygdala
  - b. hippocampus
  - c. thalamus
  - d. hypothalamus

ANSWER: c

- 165. What is the main function of the hypothalamus?
  - a. maintenance of homeostasis

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<b>Chapter 02: Multiple Choice</b>		
<ul><li>b. formation and storage of memory</li><li>c. relay of sensory information</li><li>d. initiation of movement</li></ul> ANSWER: a	,	
<ul><li>166. Dante had a stroke that damaged his a. form new memories.</li><li>b. regulate his feelings of hunger.</li><li>c. feel emotions, especially fear.</li><li>d. engage in fluid movement.</li></ul> ANSWER: b	is hypothalamus. He is now unable	to:
167. The hypothalamus:  a. is controlled by the pituitary glan b. influences the autonomic nervous c. regulates breathing and movemen d. controls development of new men ANSWER: b	s system. nt.	
168. The hypothalamus achieves steading a pituitary gland and autonomic news b. reticular activating system and brock cortical hemispheres and corpus of d. rest of the limbic system and thal ANSWER: a	rvous system. ainstem. callosum.	g the activity of the:
169. Dr. Lambert studies people who hat Lambert is MOST likely studying the a. cerebellum     b. thalamus     c. hypothalamus     d. hippocampus  ANSWER: c		hungry and when they are full. Dr.
170. The is the part of the limbic memory.  a. hypothalamus b. amygdala c. hippocampus d. thalamus  ANSWER: c	system involved in memory, especi	ally spatial memory and long-term

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#### **Chapter 02: Multiple Choice**

- 171. Conner had a head injury that damaged his hippocampus. Conner now has significant difficulty:
  - a. localizing sounds.
  - b. forming new memories.
  - c. controlling eye movements.
  - d. feeling motivated for food.

ANSWER: b

- 172. Severe damage to the hippocampus may result in:
  - a. anterograde amnesia.
  - b. Broca's aphasia.
  - c. personality change.
  - d. blindness.

ANSWER: a

- 173. Alek recently had a stroke. Although Alek can remember events that happened before his stroke, he cannot form new memories. Alek MOST likely has:
  - a. Wernicke's aphasia.
  - b. Broca's aphasia.
  - c. anterograde amnesia.
  - d. receptive aphasia.

ANSWER: c

- 174. Which statement about the hippocampus is FALSE?
  - a. The hippocampus can be damaged by high levels of stress and the hormone cortisol.
  - b. The hippocampus allows short-term memory to be stored as long-term memory.
  - c. Damage to the hippocampus can result in inability to recall past events.
  - d. The hippocampus is especially important for your memory of physical spaces.

ANSWER: c

- 175. You are at a furniture store shopping for a new couch. You really like one couch in particular and can picture exactly where in your house it will go best. To do this, you are using a mental map of your house's layout. The part of the brain that you MOST relied upon to create this mental map in your memory is the:
  - a. cerebellum.
  - b. medulla.
  - c. hypothalamus.
  - d. hippocampus.

ANSWER: d

- 176. Dr. Lopez works with people who are unable to form new long-term memories. Dr. Lopez is MOST likely studying the:
  - a. cerebellum.

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b. thalamus.		
c. hypothalamus.		
d. hippocampus.		
ANSWER: d		
177. The is the part of the limbic sy a. hippocampus	stem involved most directly in en	notion, especially fear.
b. hypothalamus		
c. amygdala		
d. thalamus		
ANSWER: c		
178 is almost exclusively controlled	ed by the amygdala.	
a. Joy		
b. Fear		
c. Disgust		
d. Sadness		
ANSWER: b		
179. Radley was in a car accident and dan experience because of that damage?  a. difficulty regulating negative emoti		me would Radley MOST likely
b. impaired ability to form new memor		
•		
c. impaired ability to synthesize and it	•	
d. difficulty in the ability to understan	d speech	
ANSWER: a		
180. Which statement about the amygdala	• •	
a. converts short-term to long-term m		
b. is involved in the experience and re	-	
c. initiates the fight-or-flight response		
d. influences the strength of the startle	e reflex.	
ANSWER: a		
181. Dr. Hu studies people who are unable expression. Dr. Hu is MOST likely studyi		-
a. cerebellum.		
b. amygdala.		
c. hypothalamus.		
d. hippocampus.		

ANSWER: b

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#### **Chapter 02: Multiple Choice**

- 182. The front and upper part of the brain that is made up of two hemispheres and is involved in complex human abilities is the:
  - a. cerebrum.
  - b. brainstem.
  - c. corpus callosum.
  - d. hippocampus.

ANSWER: a

- 183. The cerebrum is also known as the:
  - a. forebrain.
  - b. brainstem.
  - c. corpus callosum.
  - d. limbic system.

ANSWER: a

- 184. The cerebrum is the:
  - a. bundle of neurons that connects the two cerebral hemispheres.
  - b. front and upper part of the brain involved in complex human abilities.
  - c. brain material devoted to synthesizing and interpreting information.
  - d. part of the limbic system involved most directly in emotion.

ANSWER: b

- 185. Kevin's dog, Cash, always runs to greet Kevin when he comes home. Cash learned that Kevin always gives Cash bones when he comes home. Although Kevin thinks that Cash is very clever, he knows that Cash is less able to think, plan, and reason than a person because:
  - a. dogs only have one cerebral hemisphere.
  - b. humans have larger cerebrums than dogs.
  - c. humans have larger brainstems than dogs.
  - d. dogs do not have a frontal lobe.

ANSWER: b

- 186. The cerebral cortex is where:
  - a. sensory information is processed.
  - b. memories are formed and stored.
  - c. basic vital functions are maintained.
  - d. emotion and motivation are initiated.

ANSWER: a

- 187. The cerebrum is divided into two:
  - a. lobes.
  - b. hemispheres.

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Chapter 02: Multiple Choice		
c. association areas.		
d. cortices.		
ANSWER: b		
188. You are watching TV with a friend. Y	Your friend asks you for the remote f	or the TV. You pick up the
remote and hand it to your friend with you actions by the of your brain.	ir left hand. The use of your left hand	d is controlled to complete these
a. occipital lobe		
b. right hemisphere		
c. left hemisphere		
d. limbic system		
ANSWER: b		
189. Zeke is on his school's soccer team. It soccer goal. When Zeke kicks the ball, he is controlled by the of Zeke's brain.  a. temporal lobe	always uses his right foot. Zeke's use	1
1		
<ul><li>b. right hemisphere</li><li>c. left hemisphere</li></ul>		
•		
d. reticular activating system  ANSWER: c		
ANSWER. C		
190. Janine is an occupational therapist. O having a stroke. The patient's stroke MOS'	<u>=</u>	he right side of their body after
a. corpus callosum.		
b. left hemisphere.		
c. right hemisphere.		
d. parietal lobe.		
ANSWER: b		
191. Which statement BEST represents ho	ow the cerebral hemispheres operate?	The side of the brain
controls the		
a. left; right arm and left leg		
b. left; left arm and left leg		
c. right; right arm and left leg		
d. right; left arm and left leg		
ANSWER: d		
192 is a task dominated by the right	nt hemisphere.	
a. Reading written words		
b. Moving the body's right side		
c. Recognition of faces		

CLICK HERE TO ACCESS THE COMPLETE Test Bank			
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Chapter 02: Multiple Choice			
d. Seeing objects in one's right field of <i>ANSWER</i> : c	view		
<ul><li>193. The left hemisphere of the brain is do:         <ul><li>a. reading written words.</li><li>b. moving the body's left side.</li><li>c. recognizing faces and objects.</li><li>d. seeing objects focusing on the left.</li></ul></li><li>ANSWER: a</li></ul>	minant in the task of:		
194. The corpus callosum is responsible fo a. synthesizing and interpreting inform b. connecting and allowing communicated concerning and maintaining the vital d. forming and storing spatial and long ANSWER: b	nation from the senses.  ation between the cerebral hemisplunctions necessary for life.	pheres.	
195. The connects and facilitates co a. hypothalamus b. hippocampus c. frontal lobe d. corpus callosum  ANSWER: d	mmunication between the two ce	rebral hemispheres.	
196. At work, you are responsible for assign handling. When choosing who to assign to relation to the overall project goal. To assign brain, which communicate via the:  a. cerebral cortex. b. parietal lobe. c. association areas. d. corpus callosum.  ANSWER: d	a task, you have to consider how	the task should be completed in	
197. Which brain structure is cut during sp	lit-brain surgery?		

- a. corpus callosum
- b. hypothalamus
- c. brainstem
- d. amygdala

ANSWER: a

198. Split-brain surgery is typically used as a last-resort effort to treat: Copyright Macmillan Learning. Powered by Cognero.

Name:	Class:	Date:
Chapter 02: Multiple Choice		
a. paralysis.		
b. aphasia.		
c. epilepsy.		
d. amnesia.		
ANSWER: c		
severity of their seizures.	esistant epilepsy may have surgery on their	to reduce the number and
a. corpus callosum		
b. frontal lobe		
c. cerebellum		
d. cerebral cortex		
ANSWER: a		
was having. The part of David's brain a. corpus callosum.	had brain surgery to reduce the severity and nur n that was operated on was MOST likely the:	mber of epileptic seizures he
b. thalamus.		
c. cerebellum.		
d. cerebral cortex.		
ANSWER: a		
a dot on a screen and words are flash	as a teenager. She is now participating in an exned either to the right or left of the dot. Destiny accurately represents her response? When a can verbally report the word.	is asked to report what word
b. to the left of the dot, Destiny of	can verbally report the word.	
_	f the dot, Destiny cannot verbally report the wo	ord.
d. to either the right or the left of	f the dot, Destiny can verbally report the word.	
ANSWER: a		
202. The lobe of the brain is r	responsible for vision.	
a. frontal		
b. parietal		
c. temporal		
d. occipital		
ANSWER: d		
203. Which of the following would base a. complete blindness	be LEAST likely to result from damage to the o	occipital lobe of the brain?

b. visual hallucinations

Name:	Class:	Date:
<b>Chapter 02: Multiple Choice</b>		
c. incoherent speech		
d. difficulty seeing color		
ANSWER: c		
and movements. Kaden's tumor is mo	se of the location of the tumor, Kaden lost likely located on his lobe.	has difficulty seeing certain colors
a. frontal		
b. parietal		
c. temporal		
d. occipital		
ANSWER: d		
205. The lobe of the brain conta	tains the area responsible for understan	nding speech.
b. parietal		
c. temporal		
d. occipital		
ANSWER: c		
206. The area of the brain responsible	for understanding speech is:	
a. Broca's area.		
b. Wernicke's area.		
c. the occipital lobe.		
d. the parietal lobe.		
ANSWER: b		
has had difficulty understanding speelobe.	very high fever that caused damage to ch. This suggests that the damage to L	-
a. frontal		
b. parietal		
c. temporal		
d. occipital		
ANSWER: c		
her perception of sound. Tiana's accid	maged part of her brain. Since the accident MOST likely affected her le	
a. frontal		
b. parietal		
c. temporal		
d. occipital		

Name:	Class:	Date:
<b>Chapter 02: Multiple Choice</b>		
ANSWER: c		
<ul><li>209. Impairment in the ability to unders</li><li>a. Wernicke's aphasia.</li><li>b. Broca's aphasia.</li><li>c. anterograde amnesia.</li><li>d. expressive aphasia.</li></ul>	stand speech is called:	
ANSWER: a		
210. Wade has difficulty understanding often incoherent and make little sense.  a. Wernicke's  b. Broca's  c. receptive  d. anomic  ANSWER: a		
211. Which of the following would MC a. complete blindness b. visual hallucinations c. incoherent speech d. difficulty moving ANSWER: c	OST likely result from damage to the	e temporal lobe of the brain?
212. Which is NOT a function of the te a. hearing b. speech c. memory d. decision making ANSWER: d	mporal lobe of the brain?	
213. Dr. Ogden works at a Veterans Ad One of the veterans Dr. Ogden worked temperature. The area of the brain MOS a. frontal b. parietal c. temporal d. occipital ANSWER: b	with developed problems with proc	cessing feelings of pain and
214 is a cortical brain area locat pain, temperature, and itching.	ed on the parietal lobe that receives	s information about contact, pressure,

Name:	Class:	Date:
<b>Chapter 02: Multiple Choice</b>		
a. Wernicke's area		
b. The motor cortex		
c. The somatosensory cortex		
d. Broca's area		
ANSWER: c		
215. The of the body part does N instead, each spot corresponds to the a. size; sensitivity b. sensitivity; size c. location; size	<u> -</u>	kes up on somatosensory cortex;
d. sensitivity; location		
ANSWER: a		
216. Which animal's body part would N cortex devoted to it?  a. horse's back b. camel's hump c. rat's whisker	IOST likely have the proportionally	largest amount of somatosensory
d. elephant's leg		
ANSWER: c		
<ul><li>217. The lobe of the brain is responder advanced functions.</li><li>a. frontal</li><li>b. parietal</li><li>c. temporal</li><li>d. occipital</li></ul>	consible for complex thinking tasks,	planning, purposeful actions, and
ANSWER: a		
<ul><li>218. Which is NOT a function of the free a. producing movement</li><li>b. executive control</li><li>c. storing memory</li><li>d. making decisions</li></ul>	ontal lobe of the brain?	
ANSWER: c		
<ul><li>219. Which is an example of executive</li><li>a. feeling temperature</li><li>b. regulating hunger</li><li>c. forming memories</li></ul>	control under the control of the fron	tal lobe?

Name:	Class:	Date:
Chapter 02: Multiple Choice		
d. making decisions		
ANSWER: d		
220. The lobe of the brain conta a. frontal b. parietal c. temporal d. occipital	ins part of the motor cortex responsib	ole for movement.
ANSWER: a		
<ul><li>221 is a strip of brain matter in a. The motor cortex</li><li>b. Wernicke's area</li><li>c. The somatosensory cortex</li><li>d. Broca's area</li></ul> ANSWER: a	the frontal lobe that is involved in vol	luntary movement.
222. Thaddeus volunteers behind the se another volunteer accidently dropped a accident, Thaddeus had significant troustrategies. Fortunately, Thaddeus recovie with these skills. It is MOST likely that a. frontal b. parietal c. temporal d. occipital ANSWER: a	heavy set piece on Thaddeus's head. Table with problem solving, weighing revered most of his functioning, although	For several months after the multiple solutions, and forming that times he still has minor trouble
<ul><li>223. Someone who is unable to product a. multiple sclerosis.</li><li>b. Broca's aphasia.</li><li>c. anterograde amnesia.</li><li>d. receptive aphasia.</li></ul> ANSWER: b	e speech MOST likely has:	
<ul><li>224. When Matthew tries to speak, he le Matthew MOST likely has:</li><li>a. Wernicke's aphasia.</li><li>b. Broca's aphasia.</li><li>c. anterograde amnesia.</li><li>d. receptive aphasia.</li></ul>	has trouble getting out the words need	led to express his thoughts.

Name:	Class:	Date:	
Chapter 02: Multiple Choice			
225. Which statement is NOT true about the fr	ontal lobe? The fro	contal lobe contains:	
a. the motor cortex.			
b. the somatosensory cortex.			
c. the areas necessary for executive function	on.		
d. Broca's area.			
ANSWER: b			
226 is responsible for understanding sp		is responsible for producing speech.	
a. The somatosensory cortex; the motor co	ortex		
b. The frontal lobe; the temporal lobe			
c. Wernicke's area; Broca's area			
d. Broca's area; Wernicke's area			
ANSWER: c			
227. The area of the brain that receives information to parts of the body is  a. the frontal lobe; the temporal lobe	ation from parts of	f the body is and the area that send	ls
b. Wernicke's area; Broca's area			
c. the motor cortex; the somatosensory cor	rtex		
d. the somatosensory cortex; the motor cor			
ANSWER: d			
228. An association area is:			
a. the bundle of neurons that connects the	two cerebral hemis	ispheres.	
b. the front and upper part of the brain invo	olved in complex h	human abilities.	
c. brain material devoted to synthesizing a	nd interpreting info	formation.	
d. the part of the limbic system involved m	nost directly in emo	notion.	
ANSWER: c			
229. Association areas in the brain are respons	ible for:		
a. taking in sensory information.			
b. initiating motor movements.			
c. synthesizing and interpreting.			
d. maintaining arousal and attention.			
ANSWER: c			
230. Association areas are found in the:			
a. cerebrum.			
b. brainstem.			

c. limbic system.

Name:	Class:	Date:
		<u>-                                    </u>

#### **Chapter 02: Multiple Choice**

d. cerebellum.

ANSWER: a

- 231. Which statement about association areas is FALSE? Association areas:
  - a. are where information is integrated.
  - b. do more than just take in information.
  - c. process individual bits of information.
  - d. are spread across the cerebrum.

ANSWER: c

- 232. Which statement about association areas is TRUE? Association areas:
  - a. break down information into individual components.
  - b. send individual components of information.
  - c. synthesize the meaning of information.
  - d. are spread across the brainstem and thalamus.

ANSWER: c

- 233. A part of the brain that is devoted to both synthesizing and assigning meaning to information is:
  - a. an association area.
  - b. the somatosensory cortex.
  - c. the reticular activating system.
  - d. Broca's area.

ANSWER: a

- 234. Which function would be performed by an association area?
  - a. perceiving the sound that a baby is crying
  - b. moving your head away from an oncoming ball
  - c. feeling hungry after going a day without food
  - d. understanding to pick up the phone when it rings

ANSWER: d

- 235. The ability of the brain to adapt its structure and function in response to damage or experience is called:
  - a. reuptake.
  - b. plasticity.
  - c. aphasia.
  - d. localization.

ANSWER: b

- 236. Plasticity is the ability of the brain to:
  - a. adapt its structure and function in response to damage or experience.
  - b. recycle neurotransmitters back to the neuron that released it.

Name:	Class:	Date:
Chapter 02: Multiple Choice		
c. synthesize and interpret information d. send information from one neuron		
ANSWER: a		
237. Which statement about plasticity is I a. occurs exclusively in the frontal cob. occurs more in young people. c. is an adaptation of structure and fud. involves neurogenesis.  ANSWER: a	ortex.	
238. Neurogenesis is the: a. creation of new neurons.		
<ul><li>b. crossing of the synapse by neurotra</li></ul>	anemittere	
c. revision of the purpose of existing		
d. result of damage to Wernicke's are		
ANSWER: a	u.	
239 is the creation of new neurons	s.	
a. Reuptake		
b. Localization		
c. Neurogenesis		
d. Specialization		
ANSWER: c		
240. New evidence suggests that adults as neurons.  a. reuptake	s well as children undergo, v	which is the creation of new
b. split-brain surgery		
c. neurogenesis		
d. plasticity		
ANSWER: c		
241. Stem cells are:		
a. unspecialized cells.		
b. cells created during neurogenesis.		
c. cells damaged by strokes.		
d. specialized cells.		
ANSWER: a		

242. Cells that do not yet have a specialized structure or function are:

Name:	Class:	Date:
Chapter 02: Multiple Choice		-
a. glial cells.		
b. interneurons.		
c. stem cells.		
d. brain cells.		
ANSWER: c		
243. Sydney is a sculptor whose medium be molded into any type of shape she w Sydney needs to make for her customer a. glial cells.  b. interneurons.	ants. What the lump of clay eventua	ally becomes is based on what
c. stem cells.		
d. efferent neurons.		
ANSWER: c		
244. Which is NOT an example of plast	icity?	
<ul> <li>a. a larger than usual amount of the with a visual disability</li> </ul>	somatosensory cortex dedicated to	the hands and fingers in a person
b. a larger than usual amount of the	motor cortex dedicated to the foreli	imbs of rats without whiskers
c. increased motivation by the limb	ic system to seek food when a perso	on is hungry
d. change in the limbic system of a	person with a phobia after undergoi	ing psychotherapy
ANSWER: c		
245. While fixing the electrical system is and hit his head. When he fell, Bruce su of Bruce's brain partially took over the fa. split-brain function.	stained permanent damage to parts	of his brain. Over time, other areas
b. plasticity.		
c. localization.		
d. myelination.		
ANSWER: b		
246. Gerrie was in an accident that dam MOST likely happen to help Gerrie reco	over function?	
b. The size of her hippocampus, occ		
c. The amount of somatosensory co		
d. The size of her hippocampus, occ	· ·	
ANSWER: a	r p. z. z. samur ostrok W	

247. The \_\_\_\_\_ consists of the full set of nerves that connect the brain with all other parts of the body.

a. corpus callosum

CLICK HERE TO ACCESS THE COMPLETE Test Bank			
Name:	Class:	Date:	
Chapter 02: Multiple Choice			
b. nervous system			
c. endocrine system			
d. cerebral cortex			
ANSWER: b			
248. The nervous system is BEST define a. connect the brain to the parts of the			
b. stimulate the body in response to	stressors.		
c. connect the brain with all other pa	arts of the body.		
d. calm the body after exposure to st	ressors.		
ANSWER: c			
249. At a local hospital, all patients with nurses' station, which is connected to each messages from patients as well as control and its connections to the patients' room a. corpus callosum b. nervous system c. glial cells d. cerebral cortex ANSWER: b	ch patient room. From their station, of the equipment in the patients' roo	the nurses can send and receive oms. The nurses' station on this floor	
250. Dr. Browne is a neuropsychologist is interested in all parts of the brain, his a nerves that connect the brain with all oth a. corpus callosum	area of interest is primarily the		
b. central nervous system			
c. cerebral cortex			
d. nervous system			
ANSWER: d			
251. The nervous system:			
1 11	1 1		

- a. connects your brain to all parts of your body.
- b. controls only voluntary movement.
- c. regulates only involuntary movement.
- d. uses hormones instead of neurotransmitters.

ANSWER: a

- 252. Which statement about the nervous system is NOT true? The nervous system:
  - a. connects your brain to all parts of your body.
  - b. is made up of neurons.
  - c. sends and receives messages from all over your body.

Name:	Class:	Date:
Chapter 02: Multiple Choice		
d. sends hormones through the body	<i>1</i> .	
ANSWER: d		
253. The nervous system is made a. central	up of the brain and the spinal cord.	
b. peripheral		
c. autonomic		
d. parasympathetic		
ANSWER: a		
254. The central nervous system:		
a. connects your brain to all parts of	your body.	
b. is made up of the brain and the sp	oinal cord.	
c. regulates only the parts of the boo	ly controlled voluntarily.	
d. stimulates the body in response to	stressors.	
ANSWER: b		
255. In the early days of the telephone, a controlled by an operator. The operator wires. The part of the body that operates a. brainstem.	connected the incoming calls to the	ir intended location via telephone
b. corpus callosum.		
c. peripheral nervous system.		
d. central nervous system.		
ANSWER: d		
256. A researcher who studies how com the nervous system.	munication is controlled by the brai	in and the spinal cord is focusing or
a. central		
b. peripheral		
c. autonomic		
d. somatic		
ANSWER: a		
257. The is made up of the neuro	ns that connect the central nervous	system to other parts of the body.
a. central nervous system		
b. peripheral nervous system		
c. reticular activating system		
d. endocrine system		
ANSWER: b		

Name:	Class:	Date:
<b>Chapter 02: Multiple Choice</b>		
a. is activated only when the body is	s under stress.	
b. regulates only the parts of the boo		
c. regulates only the parts of the boo	·	
d. connects the central nervous syste	·	
ANSWER: d	1	
259. The connects the central ner	vous system to the parts of the bod	y that are under voluntary or
involuntary control.		
a. endocrine system		
b. peripheral nervous system		
c. reticular activating system		
d. endocrine system		
ANSWER: b		
260. The nervous system connect voluntarily.	as the central nervous system to the	parts of the body that are controlled
a. somatic		
b. autonomic		
c. parasympathetic		
d. sympathetic		
ANSWER: a		
261. The somatic nervous system:		
a. connects the central nervous syste	em to the parts of the body that are	controlled voluntarily.
b. connects the central nervous syste	em to the parts of the body that are	controlled involuntarily.
c. consists of the brain and the spina	al cord.	
d. calms the body down when stress	ors decrease.	
ANSWER: a		
262. If you were to reach out and turn of system.	ff the light in your room, this would	d be controlled by the nervous
a. somatic		
b. autonomic		
c. parasympathetic		
d. sympathetic		
ANSWER: a		
263. Dr. Yakan is an athletic trainer. He Dr. Yakan helps players to improve thei actions that are controlled by the:	<u> </u>	<u>-</u>

b. endocrine system.

a. autonomic nervous system.

Name:	Class:	Date:
<b>Chapter 02: Multiple Choice</b>		
c. parasympathetic division.		
d. somatic nervous system.		
ANSWER: d		
<ul><li>264. The autonomic nervous system:</li><li>a. connects the central nervous system t</li><li>b. connects the central nervous system t</li></ul>	to the parts of the body that are	
c. consists of the brain and the spinal co		
d. regulates all communication with the <i>ANSWER:</i> b	brain.	
<ul> <li>265. Which statement about the autonomic in a. is part of the peripheral nervous systems.</li> <li>b. is separated into two divisions.</li> <li>c. includes the brain and spinal cord.</li> <li>d. controls involuntary movement.</li> </ul> ANSWER: c		e autonomic nervous system:
ANSWER: C		
<ul><li>266. Which of the following is NOT control</li><li>a. hiccupping</li><li>b. walking</li><li>c. sneezing</li><li>d. breathing</li></ul>	led by the autonomic nervous s	system?
ANSWER: b		
267. Dr. Gould is the doctor for a college fo play, Dr. Gould conducts a physical examin heartbeat, pulse, and blood pressure, which a. autonomic nervous system.	ation. Part of Dr. Gould's exam	<u> </u>
b. central nervous system.		
c. endocrine system.		
d. somatic nervous system.		
ANSWER: a		
268. The autonomic nervous system is responsible for	onsible for, whereas the	somatic nervous system is
a. stimulating the body in response to st	ressors; calming the body where	n stressors decrease
b. voluntary movement; involuntary fun		
c. involuntary functions; voluntary mov		
d. calming the body when stressors decr ANSWER: c		esponse to stressors

Name:	Class:	Date:
Chapter 02: Multiple Choice		
269. The is the part of the autonoma. somatic nervous system	omic nervous system that stimulates	the body in response to stressors.
b. sympathetic division		
c. parasympathetic division		
d. central nervous system		
ANSWER: b		
270. You jump involuntarily in response a. endocrine system.	e to a sudden loud noise. This is con-	trolled by the:
b. cerebral cortex.		
c. parasympathetic division.		
d. sympathetic division.		
ANSWER: d		
271. After you eat, your body works to responsible for your digestion is the: a. sympathetic division.	digest your food. The part of the ner	vous system that is MOST
• •		
b. central nervous system.		
c. parasympathetic division.		
d. somatic nervous system.  ANSWER: c		
ANSWER: C		
272. You are sitting in the cafeteria text and causes you to jump, although you q the result of activation of the sympathet a. sitting	uickly calm down when you see who	o it is. Which of your behaviors is
b. texting		
c. jumping		
d. calming down		
ANSWER: c		
273. A large dog runs toward you, and y autonomic nervous system has been act		se. Which division of your
a. somatic		
b. central		
c. sympathetic		
d. parasympathetic		
ANSWER: c		
274. The is the part of the autono	omic nervous system that calms the b	oody once a stressor has been
removed.		
a. somatic nervous system		

CLICK HERE TO ACCESS THE COMPLETE Test Bank			
Name:	Class:	Date:	
<b>Chapter 02: Multiple Choice</b>			
b. sympathetic division			
c. parasympathetic division			
d. central nervous system			
ANSWER: c			
and causes you to jump although you	exting when a classmate unexpectedly quickly calm down when you see who apathetic division of your autonomic n	o it is. Which of your behaviors is	
ANSWER: d			
•	ol, another car pulled out in front of you the other car moved out of your way. ' calming down was the:		
ž –	g day in class and put your feet up on t ision of your autonomic nervous syste	• •	
270 Which is a response that results	from activation of the narrowmenthati	a division of the outenomic marrous	

278. Which is a response that results from activation of the parasympathetic division of the autonomic nervous system?

a. pupils widening

- b. digesting food
- c. heart rate increasing
- d. sweating

ANSWER: b

279. Dr. Drogoti studies the sympathetic nervous system. Which type of response is he MOST likely to be interested in?

Name:	Class:	Date:
Chapter 02: Multiple Choice		
a. sweating		
b. seeing		
c. speaking		
d. deciding		
ANSWER: a		
280. The is made up of the glands can travel to affect many parts of the body	<u>-</u>	es into the bloodstream where they
a. central nervous system		
b. somatic nervous system		
c. peripheral nervous system		
d. endocrine system		
ANSWER: d		
281. The endocrine system:		
a. sends hormones throughout the bo	ody.	
b. breaks down into the parasympath	etic and sympathetic divisions.	
c. specifically controls voluntary mo	vement.	
d. consists of the brain and spinal co	rd.	
ANSWER: a		
282. Which statement about the endocring a. is made up of many glands.	e systems is NOT true? The endoor	crine system:
b. sends hormones through the blood	l.	
c. operates as quickly as the nervous		
d. influences sexual development.	·	
ANSWER: c		
283. The chemicals made by the glands of a neurotransmitters.	of the endocrine system are called:	
b. hormones.		
c. agonists.		
d. antagonists.		
ANSWER: b		

#### 284. Hormones are:

- a. signaling chemicals made by the endocrine system.
- b. what neurotransmitters are called after reuptake.
- c. synonymous with action potentials.
- d. support materials made by glial cells.

## ANSWER: a

Name:		Class:	Date:
Chapter 02: N	Multiple Choice		
When she rece Martina receiv communication a. central i	evived the invitation, Bernadette ed the e-mail almost immedian is similar to the and Enervous system; peripheral ner	e e-mailed Martina to say she velocities the second stelly after Bernadette sent it. In Bernadette's is similar to the vous system	hich took four days to reach her. would attend her graduation party. this example, Martina's approach to
	ral nervous system; central ner	vous system	
	system; endocrine system		
	ne system; nervous system		
ANSWER: d			
286. Which be a. vision b. sex driv	havior is LEAST influenced b	y hormones?	
c. appetite			
d. sleep			
ANSWER: a			
287. The to stress. a. thyroid b. pineal c. adrenal d. pituitary		the kidneys and produce horm	nones to arouse the body in response
ANSWER: c			
288. Sharon of a. pituitary b. pineal. c. thyroid. d. adrenal. <i>ANSWER</i> : d	7.	hat is MOST likely for Sharon	s's stress is the:
a. adrenal b. pituitary c. pineal d. thyroid ANSWER: a		nd the "stress hormone" cortis	ol.
290. Thea. adrenal	_ gland plays an important rol	e in sleeping and waking.	

Name:	Class:	Date:
Chapter 02: Multiple Choice		
b. pituitary		
c. pineal		
d. thyroid		
ANSWER: c		
291. The reproductive organs produce:		
a. estrogen and testosterone.		
b. adrenaline and cortisol.		
c. melatonin and histamine.		
d. growth hormone and cortisol.		
ANSWER: a		
morning. The gland that is MOST likel	lling asleep at night, and she is repeatedly affecting Anita's sleep cycle is the	
a. glia		
b. peripheral		
c. pineal		
d. thyroid		
ANSWER: c		
concerned because in addition to her in	even though she has been eating well an acreased body weight, her blood pressure that her gland is not working as in	e is increasing. Ginger plans to
b. glia		
c. pineal		
d. thyroid		
ANSWER: d		
metabolism, blood pressure, and body t a. pineal; thyroid b. pituitary; adrenal	ant role in sleeping and waking, whereas temperature.	the gland influences
c. adrenal; pituitary		
d. thyroid; pineal		
ANSWER: a		
295. Your pituitary gland is directly or a. sensing touch on the back of you b. determining how tall you will gr		ng EXCEPT:

c. your blood pressure and body temperature.

Name:	Class:	Date:
<b>Chapter 02: Multiple Choice</b>		
d. the rate of your metabolism.		
ANSWER: a		
296. The pituitary gland is located:		
a. on top of the kidneys.		
b. on reproductive organs.		
c. in the brain.		
d. by the throat.		
ANSWER: c		
297. The pituitary gland produces:		
a. adrenaline.		
b. cortisol.		
c. melatonin.		
d. growth hormone.		
ANSWER: d		
298. The gland is considered the "m	naster gland" of the endocrine sys	stem.
a. adrenal		
b. pituitary		
c. pineal		
d. thyroid		
ANSWER: b		
299. The gland produces human gro	owth hormone and also controls a	all of the other glands in the body.
a. adrenal		
b. pituitary		
c. pineal		
d. thyroid		
ANSWER: b		
300. If a person has below expected growt	h during childhood, their doctor i	may suspect that their gland is
not functioning properly.		
a. pituitary b. adrenal		
c. pineal		
d. thyroid		
ANSWER: a		
301. The supervisor at a fast food restaurar supervisor is functioning MOST similarly		s assigned to employees. This
2	~	

Name:	Class:	Date:
Chapter 02: Multiple Choice		
a. adrenal		
b. pineal		
c. pituitary		
d. thyroid		
ANSWER: c		
302 is a technique in which sensors	s are placed on the scalp to record	d activity in the brain.
a. Electroencephalography		
b. Computed tomography		
c. Magnetic resonance imaging		
d. Positron emission tomography		
ANSWER: a		
303 measures the difference in the	activity of neurons between two	points on the brain via sensors
placed on the scalp.		
a. Computed tomography		
b. Electroencephalography		
c. Magnetic resonance imaging		
d. Positron emission tomography <i>ANSWER:</i> b		
ANSWER: U		
304 is best suited for assessing seiz	ture-based disorders like epilepsy	y.
a. Computed tomography		
b. Magnetic resonance imaging		
c. Electroencephalography		
d. Positron emission tomography		
ANSWER: c		
305. Which technique would NOT be suite the brain?	ed for assessing damaged brain ti	issue or larger-than-normal spaces in
a. computed tomography		
b. magnetic resonance imaging		
c. positron emission tomography		
d. electroencephalography		
ANSWER: d		
306. Susan was in a boating accident and i of her brain was damaged. Which techniqua. computed tomography		
b. magnetic resonance imaging		

c. positron emission tomography

Name:	Class:	Date:
<b>Chapter 02: Multiple Choice</b>		
d. electroencephalography		
ANSWER: d		
307. Which technique does NOT product a electroencephalography b. computed tomography c. magnetic resonance imaging d. positron emission tomography  ANSWER: a	ice a picture of the brain?	
308 produces images of the bra a. Electroencephalography; compute b. Computed tomography; electroe c. Magnetic resonance imaging; po d. Positron emission tomography; a ANSWER: b	nted tomography ncephalography ositron emission tomography	
<ul> <li>309 is a technique in which mu</li> <li>a. Electroencephalography</li> <li>b. Computed tomography</li> <li>c. Magnetic resonance imaging</li> <li>d. Positron emission tomography</li> </ul> ANSWER: b	ltiple X-rays are combined to make a	3D image of the brain.
310. The first brain imaging procedure diseases was:  a. electroencephalography. b. computed tomography. c. magnetic resonance imaging. d. positron emission tomography.  ANSWER: b	developed that allowed psychologists	s to detect brain lesions and other
311. Computed tomography takes resolution.  a. more; higher b. more; lower c. less; higher d. less; lower ANSWER: d  312. The technique uses X-rays, image the brain.		

Name:	Class:	Date:
<b>Chapter 02: Multiple Choice</b>		
a. MRI; CT		
b. MRI; PET		
c. PET; MRI		
d. CT; MRI		
ANSWER: d		
313 is a technique in which magne	tic fields and radio waves are use	ed to make images of brain structure.
a. EEG		
b. CT		
c. MRI		
d. PET		
ANSWER: c		
314 is a technique in which activity injected into the body.	y in various brain structures is ill	ustrated by a radioactive sugar
a. Electroencephalography		
b. Computed tomography		
<ul><li>c. Magnetic resonance imaging</li><li>d. Positron emission tomography</li></ul>		
ANSWER: d		
MOWER. u		
315. Dr. Spekter is interested in what parts technique in which she injects a radioactive Spekter is MOST likely using:		<b>.</b>
<ul><li>a. electroencephalography.</li><li>b. computed tomography.</li></ul>		
c. magnetic resonance imaging.		
d. positron emission tomography.		
ANSWER: d		
THIS WELL		
316. Which technique is best suited for matthe brains?	aking connections between partic	ular activities and specific parts of
a. electroencephalography		
b. computed tomography		
c. positron emission tomography		
d. magnetic resonance imaging		
ANSWER: c		
317 and are techniques that a. EEG; CT	show both brain activity and the	location of parts of the brain.
b. fMRI; PET		

Name:	Class:	Date:
<b>Chapter 02: Multiple Choice</b>		
c. PET; EEG		
d. fMRI; CT		
ANSWER: b		
318 is a technique in which magnetic fields a. EEG b. CT c. fMRI d. PET  ANSWER: c	s are used to make image	es of brain activity.
319. What is NOT a limitation of functional magneta. The fMRI technique has poor resolution in a b. Research using fMRI is more exploratory that c. Many fMRI results are not stable across timed. Conclusions from fMRI results are often example.	comparison to other tech an hypothesis-based. e and/or are due to chan	nniques.

ANSWER: a

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#### Chapter 02: Essay

- 1. Describe how Phineas Gage's brain injury and Paul Broca's discovery of language deficits after a patient's stroke provide evidence that certain traits or abilities are localized to specific brain areas. Provide specific examples from each case study.
- ANSWER: Phineas Gage was working on a railroad construction project and sustained a brain injury when an explosion sent a rod through the roof of his mouth and into his head. While he survived, his behavior changed dramatically; previously, he was very mild-mannered and responsible but, after the accident, he became hot-headed and impulsive. Paul Broca performed an autopsy on a patient who, after a stroke, could not speak fluently, and he found that the stroke had damaged a very specific part of the patient's left frontal lobe. Both of these behavior changes after brain injury suggest that these specific parts of the brain were necessary for certain behaviors or traits, and, in uninjured brains, control certain traits or behaviors.
- 2. What is a reflex? Define the roles of afferent and efferent neurons in a reflex. Provide an example to illustrate the roles.
- ANSWER: A reflex is an automatic motor response to a sensory event. Information from the outside environment is received by and travels from afferent neurons to the central nervous system (e.g., pain from touching a hot stove). Once the information is processed in the central nervous system, an efferent neuron carries the command to move the body away from the stimulus (e.g., pull hand away from stove).
- 3. Detail the functions of a neuron's dendrites, axon, and axon terminals to describe how information is received and sent by a neuron. Also describe the space between neurons that the message must cross.
- ANSWER: Information is received by the dendrites of a neuron. If this stimulates an action potential in that neuron, the message will be sent down the axon, which ends in the axon terminals. These terminals release neurotransmitters, the chemical messengers in the nervous system, that will be received by the next neuron in the communication chain. Neurotransmitters must cross the synapse to be received on receptor sites on the dendrites of the next neuron in line.
- 4. Explain how and why deterioration of the myelin sheath in multiple sclerosis would impact sensation and movement.
- ANSWER: The myelin sheath is a fatty substance that helps electrical messages travel down a neuron's axon. When it breaks down, the message may not reach the next neuron. If this happens between the central nervous system and motor neurons, that means a command from the brain to move will not reach the muscles. If this happens between sensory neurons, it means a message received from the outside world will not make it to the brain to be perceived.
- 5. Describe the process of reuptake. Give an example of how drugs that affect this process can be used in the treatment of disease.
- ANSWER: Reuptake is the process through which a neurotransmitter that does not make it to receptor sites on the next neuron is returned to the neuron that released it. Drugs that block reuptake of certain neurotransmitters—mostly serotonin and norepinephrine—are often used in the treatment of depression. By allowing a neurotransmitter to remain in the synapse, rather than being reuptaken, the neurotransmitter is more is likely to activate receptor sites on the next neuron.
- 6. What happens when a neuron at rest is stimulated to a level that reaches threshold? Can this process happen continuously? Why or why not?

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- ANSWER: When a neuron's resting potential changes to the point that it reaches threshold, the neuron will fire an action potential. This cannot happen continuously because, after an action potential fires, the neuron enters a refractory period during which it cannot fire again until the resting potential resets.
- 7. Describe what it means that brain function is localized. Discuss the limitations of this localization.
- ANSWER: Localization of brain function means that specific parts are specialized to perform certain behaviors. Thus, a certain behavior may no longer happen if a certain part of the brain is damaged. However, this doesn't mean that a behavior or trait would still exist if the part of the brain specialized for it was the *only* part that was working.
- 8. Compare and contrast the locations and functions of the brainstem, thalamus, and cerebrum. Describe how this structural organization supports the notion that a larger proportion of brain material at the top and front of the head supports functions that make us "uniquely human."
- ANSWER: The brainstem is at the very bottom of the brain, and it performs functions that are basic but necessary for survival. It contributes to primarily automatic and unconscious responses. The thalamus caps the brainstem and performs the somewhat more complex function of processing and relaying sensory information. This information is sent to final processing in the cerebrum, where higher-order thinking, planning, and decision making occurs. The cerebrum—especially the outermost cortex of the frontal lobe—supports executive function and are things that make us "uniquely human."
- 9. Name the three main parts of the limbic system and their main functions. What is similar about all their functions? Why are they considered a single system?
- ANSWER: The three main parts of the limbic system are the hypothalamus, the hippocampus, and the amygdala. The hypothalamus maintains steadiness of bodily function. The hippocampus is important in memory. The amygdala is necessary for emotion, especially fear. All parts of the limbic system work together to motivate behavior and contribute to emotional responses.
- 10. Compare and contrast the dominant functions of the left versus the right hemispheres of the cerebrum. What part of the brain controls movement on the right side of the body, and what part of the brain processes things you see in your left visual field?
- ANSWER: The right cerebral hemisphere is dominant for the recognition of objects and faces, whereas the left cerebral hemisphere is dominant for language tasks, such as word reading. The motor cortex in your left hemisphere would control movement of the right side of the body, whereas the occipital lobe of your right hemisphere processes information in your left visual field.
- 11. Why might a person have split-brain surgery, and what happens during this surgery? Give one example of a unique behavior that can occur after split-brain surgery.
- ANSWER: Split-brain surgery may be used to treat severe epilepsy. Because electrical signals in the brain can get out of control as they move from cerebral hemisphere to hemisphere, cutting the corpus callosum can stop the onset of seizures. However, because the ability of one hemisphere to talk to the other is removed, a person's hands may act independently of one another. One example is that, after a person puts an item from the grocery into a shopping cart, the other hand will remove it without the person's awareness.
- 12. Where can we find the somatosensory cortex and the motor cortex? How is the amount of brain material on

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them allocated? Explain and give an example.

ANSWER: The somatosensory cortex is located on the parietal lobes, and the motor cortex is located on the frontal lobes. Brain material amount is allocated not in proportion to how big the body part is, but rather to how sensitive the part is to a sensation or how delicate a movement it can execute. For example, the torso is bigger than the fingertips, but more brain material on the somatosensory cortex is allocated to the fingertips, which is why the fingertips are much more sensitive to touch than the torso.

- 13. Discuss the role of stem cells in neurogenesis and brain plasticity. Give one example of plasticity that can occur after brain damage.
- ANSWER: Plasticity—the ability of the brain to change structure and function—often is assisted through the creation of new neurons through the process of neurogenesis. New neurons form from stem cells, which are undifferentiated cells that don't specialize until they are needed. In the case of brain damage, new neurons can be created to replace some (but not all) that have been lost.
- 14. Differentiate between the central and peripheral nervous systems in terms of composition and function. Name and, using examples, describe the functions of the two parts of the peripheral nervous system.
- ANSWER: The central nervous system is composed of the brain and the spinal cord, which receive messages from the rest of the body, process the information, and send replies in the form of motor commands back to the body. The peripheral nervous system consists of all the other neurons of the body, which receive the information from the outside environment, send it to the central nervous system, and execute the commands of the central nervous system. The peripheral nervous system can be further divided into the somatic and autonomic systems. The somatic system controls voluntary movement, like running a marathon, and the autonomic system controls involuntary behaviors, like stomach contractions during the digestion of food.
- 15. Name and describe the functions of the two divisions of the autonomic nervous system. Provide examples to illustrate the functions.
- ANSWER: The autonomic nervous system controls involuntary movement and is composed of two divisions: the sympathetic and parasympathetic divisions. The sympathetic division is responsible for the fight-or-flight response and mobilizes the body to react to stress by doing things like stopping digestion, widening the pupils, and making a person sweat. Once the stressor is gone, the parasympathetic calms the person down and "resets" the body by doing things like resuming digestion, constricting the pupils, and stopping one from sweating.
- 16. You're sitting in the theater watching a movie when the fire alarm goes off. You jump and get out of your seat to leave the theater, but the alarm stops, and an announcement is made that the alarm was unintentional and there is no emergency. You calm down and go back to enjoying your movie. Name and explain the roles of the divisions of the autonomic nervous system in your responses.
- ANSWER: The sympathetic division of the autonomic nervous system is responsible for your startled jump and preparation to flee in response to an unexpected stressor (the fire alarm). This system mobilizes your "fight-or-flight" response. Once the announcement was made and you understood there was no emergency, the parasympathetic division of your nervous system took over to calm you down and allow you to return to enjoying the movie.
- 17. Compare and contrast the type of signals used by the nervous and endocrine systems and how they differ in

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terms of speed.

ANSWER: Both the endocrine and nervous systems use chemicals to communicate. In the nervous system, neurons release neurotransmitters, which cross a synapse and bind to receptors on other neurons to continue the message. In the nervous system, glands release hormones into the bloodstream, and these impact many organs. Information sent via neurotransmitters is very fast, whereas hormones take a longer time to reach their destination.

- 18. Describe what electroencephalography measures, how it does it, and why it is well suited for assessing seizure-based disorders like epilepsy.
- ANSWER: Electroencephalography measures differences in electrical activity between different parts of a person's brain via electrodes that are stuck to the scalp. Seizures are the result of disproportionate activity across the brain, and so EEG can detect and potentially diagnose such disorders.
- 19. Compare and contrast how computed tomography and positron emission tomography work to provide information about the brain. What type of information does each provide? Give an example of what each would be best used for.
- ANSWER: Computed tomography works by taking multiple X-ray pictures of the brain from different angles to create a three-dimensional image of the brain. It does not provide any information about activity occurring in the brain, but rather provides a very detailed picture. This is helpful to localize damage, for example, after a stroke or to assess the size of a brain tumor. Positron emission tomography assesses how quickly certain parts of the brain use a radioactive sugar that is injected into the bloodstream. It does not provide as detailed a spatial picture as computed tomography, but it gives information on the activity of a brain area. This is helpful to see if blood flow is interrupted to a certain brain area and how drugs affect activity in the brain.