Test Bank for Discovery Series Introduction to Psychology 1st Edition by Plotnik

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Chapter 2: Biological Bases of Behavior

MULTIPLE CHOICE

MSC: TYPE: Easy

UL	TIPLE CHOICE
1.	What progressive neurological disorder is characterized by memory loss, personality deterioration, and emotional outbursts? a. Parkinson's disease b. Multiple Sclerosis c. Autism d. Alzheimer's disease
	ANS: D PTS: 1 DIF: Bloom's: Remember REF: 2.1 Introduction, Textbook Video - Alzheimer's Disease, Online Video - Declining Mental Acuity, Online OBJ: LO1 Describe Alzheimer's disease. MSC: TYPE: Easy
2.	 Charles has Alzheimer's disease. What can Charles and his family expect in the coming years? a. His condition will worsen. b. Charles' cognitive function will deteriorate, but his personality should not dramatically change. c. Charles will have to take medication for many months, but it is possible to cure his disease. d. The course of Alzheimer's is difficult to describe.
	ANS: A PTS: 1 DIF: Bloom's: Understand REF: 2.1 Introduction, Textbook Video - Alzheimer's Disease, Online Video - Declining Mental Acuity, Online OBJ: LO1 Describe Alzheimer's disease. MSC: TYPE: Easy
3.	 Which of the following statements <u>best</u> explains why psychologists should study the nervous system? a. The nervous system is controlled by the mind and psychologists focus on the mind. b. Behavior, both normal and abnormal, has its roots in the nervous system. c. Psychologists can perform brain surgery to cure illnesses such as Alzheimer's. d. It is required for licensing and insurance payments.
	ANS: B PTS: 1 DIF: Bloom's: Understand REF: 2.1 Introduction, Textbook MSC: TYPE: Medium DIF: Bloom's: Understand OBJ: LO1 Describe Alzheimer's disease.
4.	are chains of chemicals arranged like rungs on a twisting ladder. a. Genes c. Opsins b. Neurons d. Neurotransmitters
	ANS: A PTS: 1 DIF: Bloom's: Remember REF: 2.2 Genes and Evolution, Textbook Animation - Genes Overview, Online OBJ: LO2 Describe the structures and processes involved in genetic transmission

5.	Chromosomes consist of: a. zygotes c. DNA
	b. sperm d. phenotypes
	ANS: C PTS: 1 DIF: Bloom's: Remember REF: 2.2 Genes and Evolution, Textbook OBJ: LO2 Describe the structures and processes involved in genetic transmission. MSC: TYPE: Easy
6.	A is a specific segment on the long strand of DNA.
	a. geneb. zygotec. chromosomed. phenotype
	ANS: A PTS: 1 DIF: Bloom's: Remember REF: 2.2 Genes and Evolution, Textbook Animation - Genes Overview, Online OBJ: LO2 Describe the structures and processes involved in genetic transmission. MSC: TYPE: Easy
7.	Which statement is <u>most</u> accurate in describing the order from smallest to largest? a. zygote, genes, DNA, chromosomes b. genes, DNA, chromosomes, zygote c. DNA, zygote, genes, chromosomes d. DNA, genes, chromosomes, zygote
	ANS: D PTS: 1 DIF: Bloom's: Apply REF: 2.2 Genes and Evolution, Textbook OBJ: LO2 Describe the structures and processes involved in genetic transmission. MSC: TYPE: Medium
8.	"The color of your eyes is due to genes." Genes provide instructions for making: a. protein b. genomes c. DNA d. chromosomes
	ANS: A PTS: 1 DIF: Bloom's: Understand REF: 2.2 Genes and Evolution, Textbook Animation - "Inheriting Eye Color," Online OBJ: LO2 Describe the structures and processes involved in genetic transmission. MSC: TYPE: Easy
9.	A gene that has more than one version is called a: a. polymorphic gene c. genome b. zygote d. chromosome
	ANS: A PTS: 1 DIF: Bloom's: Remember REF: 2.2 Genes and Evolution, Textbook Animation - Genes Overview, Online OBJ: LO2 Describe the structures and processes involved in genetic transmission. MSC: TYPE: Easy
10.	What type of gene is expressed even if it is paired with a recessive gene? a. polymorphic gene c. genome b. zygote d. dominant
	ANS: D PTS: 1 DIF: Bloom's: Understand REF: 2.2 Genes and Evolution, Textbook OBJ: LO2 Describe the structures and processes involved in genetic transmission. MSC: TYPE: Easy

11.	The gene for brown eyes is; the gene for blue eyes is
	a. recessive; zygotic c. recessive; dominant
	b. dominant; recessive d. recessive; phenotypic
	ANS: B PTS: 1 DIF: Bloom's: Remember REF: 2.2 Genes and Evolution, Textbook Animation - Inheriting Eye Color, Online
	OBJ: LO2 Describe the structures and processes involved in genetic transmission. MSC: TYPE: Easy
12.	You inherited a gene for brown eyes from your father, but a gene for blue eyes from your mother. What color are your eyes?
	a. blueb. brownc. greend. impossible to predict
	ANS: B PTS: 1 DIF: Bloom's: Apply REF: 2.2 Genes and Evolution, Textbook Animation - Inheriting Eye Color, Online OBJ: LO2 Describe the structures and processes involved in genetic transmission. MSC: TYPE: Easy
13.	 Which statement is <u>not</u> consistent with Darwin's view of evolution? a. Different species arouse from a common ancestor. b. Humans and chimps share at least 98% of their DNA. c. Present day humans descended from a creature that split off from apes. d. Humans belong to their own, unique family tree.
	ANS: D PTS: 1 DIF: Bloom's: Evaluate REF: 2.2 Genes and Evolution, Textbook OBJ: LO3 Articulate the forces believed to be responsible for the evolution of the human brain and describe the relevance of the theory of evolution in how psychologists conduct research today. MSC: TYPE: Medium
14.	According to the theory of evolution: a. different species arose from different ancestors b. humans belong to their own, unique family tree c. present day humans descended from a creature related to apes d. humans and chimps share only 1% of their DNA
	ANS: C PTS: 1 DIF: Bloom's: Understand REF: 2.2 Genes and Evolution, Textbook OBJ: LO3 Articulate the forces believed to be responsible for the evolution of the human brain and describe the relevance of the theory of evolution in how psychologists conduct research today. MSC: TYPE: Medium
15.	From the evolutionary perspective, mutations that improve our survival and functioning are called: a. polymorphic genes c. adaptations b. natural selections d. genome
	ANS: C PTS: 1 DIF: Bloom's: Understand REF: 2.2 Genes and Evolution, Textbook OBJ: LO3 Articulate the forces believed to be responsible for the evolution of the human brain and describe the relevance of the theory of evolution in how psychologists conduct research today. MSC: TYPE: Easy

16.	•	and peripheral cells s and glial cells
	REF: 2.3 Neurons: Structure, Function, and Communication	s: Remember on, Textbook Animation - Neuron and entify the main functions of glial cells.
17.	7. Which brain cells are responsible for providing insulation a a. GABA cells c. axon c b. curare cells d. glial ce	ells
	REF: 2.3 Neurons: Structure, Function, and Communication	s: Understand on, Textbook Animation - Neuron and entify the main functions of glial cells.
18.	a. support; transmit c. suppor	t; insulate mer's disease; ADHD
	ANS: A PTS: 1 DIF: Bloom' REF: 2.3 Neurons: Structure, Function, and Communicati Transmitters, Online OBJ: LO4 Id MSC: TYPE: Medium	
19.	 9. The functions of neurons include: a. transmitting and receiving electrical messages b. providing support for glial cells c. insulating axons d. opening sodium gates in glial cells 	
	ANS: A PTS: 1 DIF: Bloom's REF: Neurons: Structure, Function, and Communication, Transmitters, Online OBJ: LO5 Identify the various parts of the neuron and ex MSC: TYPE: Easy	Textbook Animation - Neuron and
20.	20. Which structures specialize in receiving electrical signals a a. glial cells c. dendrit b. neurons d. astrocy	res
	ANS: B PTS: 1 DIF: Bloom' REF: 2.3 Neurons: Structure, Function, and Communicati Transmitters, Online OBJ: LO5 Identify the various parts of the neuron and exp MSC: TYPE: Easy	

21.	What do the two main extensions of a neuron do? a. receive and transmit electrical signals b. wrap around glial cells c. support mature glial cells d. provide the mechanisms by which glial cells repair themselves
	ANS: A PTS: 1 DIF: Bloom's: Remember REF: 2.3 Neurons: Structure, Function, and Communication, Textbook Animation - Neuron and Transmitters, Online OBJ: LO5 Identify the various parts of the neuron and explain how a neuron functions. MSC: TYPE: Easy
22.	Electrical messages can be transmitted in the neuron up to: a. 2 miles per hour c. 2000 miles per hour b. 200 miles per hour d. 20,000 miles per hour
	ANS: B PTS: 1 DIF: Bloom's: Remember REF: 2.3 Neurons: Structure, Function, and Communication, Textbook Animation - Neuron and Transmitters, Online OBJ: LO5 Identify the various parts of the neuron and explain how a neuron functions. MSC: TYPE: Easy
23.	The keeps the neuron in working order and has specialized extensions that arise from it. a. axon c. cell body b. myelin sheath d. synapse
	ANS: C PTS: 1 DIF: Bloom's: Understand REF: 2.3 Neurons: Structure, Function, and Communication, Textbook Animation - Neuron and Transmitters, Online OBJ: LO5 Identify the various parts of the neuron and explain how a neuron functions. MSC: TYPE: Easy
24.	Consider this scenario: The neuron is dying. All of the structures except the cell body are healthy and undamaged. Why might damage to the cell body be the reason for the neuron's impending death? a. The cell body is responsible for insulating the neuron. b. The nucleus may be damaged. c. The cell body receives nourishment from the glial cells. d. The cell body keeps the neuron in working order.
	ANS: D PTS: 1 DIF: Bloom's: Analyze REF: 2.3 Neurons: Structure, Function and Communication, Textbook OBJ: LO5 Identify the various parts of the neuron and explain how a neuron functions. MSC: TYPE: Medium
25.	If the axon is the "output" structure of the neuron, the input structure is the: a. end bulb c. myelin b. dendrite d. lobe
	ANS: B PTS: 1 DIF: Bloom's: Understand REF: 2.3 Neurons: Structure, Function, and Communication, Textbook Animation - Neuron and Transmitters, Online OBJ: LO5 Identify the various parts of the neuron and explain how a neuron functions. MSC: TYPE: Easy

26.	Which part of a neuron carries signals away from a. axon c.	•
	b. cell body d.	
	ANS: A PTS: 1 DIF: REF: 2.3 Neurons: Structure, Function, and Com Transmitters, Online OBJ: LO5 Identify the various parts of the neuron MSC: TYPE: Easy	munication, Textbook Animation - Neuron and
27.	with a(n)" a. myelin sheath c.	euron and say, "Wish we had a television set covered dendrite
		neurotransmitter
	ANS: A PTS: 1 DIF: REF: 2.3 Neurons: Structure, Function, and Com Transmitters, Online OBJ: LO5 Identify the various parts of the neuron MSC: TYPE: Medium	•
28.	Tiny sacs or vesicles that are filled with neurotrans a. end bulbs c. b. axon d.	dendrites
	ANS: A PTS: 1 DIF: REF: 2.3 Neurons: Structure, Function, and Com Transmitters, Online OBJ: LO5 Identify the various parts of the neuron MSC: TYPE: Easy	munication, Textbook Animation - Neuron and
29.	 A synapse is the: a. part of the dendrite that receives incoming sign b. small space between the end bulb and its neightorgan c. chemical that transmits signals from one neurod. d. signal that travels from one neuron to another 	aboring dendrite, muscle fiber, or body
	ANS: B PTS: 1 DIF: REF: 2.3 Neurons: Structure, Function, and Com Transmitters, Online OBJ: LO5 Identify the various parts of the neuron MSC: TYPE: Easy	
30.	End bulbs release neurotransmitters into the: a. cell body c. b. synapse d.	myelin sheath axon
	ANS: B PTS: 1 DIF: REF: 2.3 Neurons: Structure, Function, and Com Transmitters, Online OBJ: LO5 Identify the various parts of the neuron MSC: TYPE: Easy	•

31.		open and close its chemical gates negatively charge the dendrites
	ANS: C PTS: 1 DIF: REF: 2.3 Neurons: Structure, Function and Comm Transmitters, Online OBJ: LO6 Describe the sequence of the action po MSC: TYPE: Medium	•
32.	• •	have sodium; have protein are positive; are negative
	ANS: A PTS: 1 DIF: REF: 2.3 Neurons: Structure, Function, and Common OBJ: LO6 Describe the sequence of the action pomSC: TYPE: Medium	
33.	When a neuron is in a resting state, the majority of are: a. positive sodium ions b. sodium ions that have yet to pick up a charge c. chloride ions d. chemically inert	the particles in the fluid surrounding the neuron
	ANS: A PTS: 1 DIF: REF: 2.3 Neurons: Structure, Function, and CommoBJ: LO6 Describe the sequence of the action pomSC: TYPE: Medium	
34.	The "all-or-none law" explains what happens when a. positively and negatively charged ions meet b. an impulse starts at the beginning of an axon c. electrical impulses spread throughout the body d. your brain gets the idea of a six-pack	
	ANS: B PTS: 1 DIF: REF: 2.3 Neurons: Structure, Function, and CommoBJ: LO6 Describe the sequence of the action pomSC: TYPE: Medium	nunication, Textbook
35.		on the axon at a constant speed? snowball effect neuronal push rule
	ANS: A PTS: 1 DIF: REF: 2.3 Neurons: Structure, Function, and Communitarisms, Online OBJ: LO6 Describe the sequence of the action polymer.	,

36.	If the stimulation is strong enough, the neuron's chemical gates and will come into the neuron.
	a. open; negative sodium ionsb. open; positive sodium ionsc. close; positive sodium ionsd. close; vesicles
	ANS: B PTS: 1 DIF: Bloom's: Understand REF: 2.3 Neurons: Structure, Function, and Communication, Textbook Animation - Neuron and Transmitters, Online OBJ: LO6 Describe the sequence of the action potential and neural impulse. MSC: TYPE: Medium
37.	If the positive sodium ions rush inside the axon, the axon will: a. enter the resting state b. release a neurotransmitter c. change its threshold c. experience an action potential
	ANS: D PTS: 1 DIF: Bloom's: Understand REF: 2.3 Neurons: Structure, Function, and Communication, Textbook OBJ: LO6 Describe the sequence of the action potential and neural impulse. MSC: TYPE: Medium
38.	Which statement is true if there is an action potential at a particular point along the axon? At that point in the axon, the a. inside of the axon is positively charged; the outside is negatively charged b. inside of the axon is negatively charged; the outside is positively charged c. sodium pumps are highly active d. chemical gates are closed to sodium ions
	ANS: A PTS: 1 DIF: Bloom's: Analyze REF: 2.3 Neurons: Structure, Function, and Communication, Textbook OBJ: LO6 Describe the sequence of the action potential and neural impulse. MSC: TYPE: Difficult
39.	A tiny electrical current generated in the axon is called a(n) a. electropotential b. ion wave c. action potential d. resting potential
	ANS: C PTS: 1 DIF: Bloom's: Remember REF: 2.3 Neurons: Structure, Function, and Communication, Textbook OBJ: LO6 Describe the sequence of the action potential and neural impulse. MSC: TYPE: Easy
40.	What structure in the neuron helps to speed up the transmission of the action potential? a. axon c. myelin sheath b. dendrites d. end bulb
	ANS: C PTS: 1 DIF: Bloom's: Understand REF: 2.3 Neurons: Structure, Function, and Communication, Textbook Animation - Neuron and Transmitters, Online OBJ: LO6 Describe the sequence of the action potential and neural impulse. MSC: TYPE: Easy

41.	while speeding down an axon, the impulse reaches an incredible speed by jumping at the breaks in the: a. end bulb c. myelin sheath
	a. end bulbb. dendritec. myelin sheathd. synapse
	ANS: C PTS: 1 DIF: Bloom's: Remember REF: 2.3 Neurons: Structure, Function, and Communication, Textbook Animation - Neuron and Transmitters, Online OBJ: LO6 Describe the sequence of the action potential and neural impulse. MSC: TYPE: Easy
42.	is/are (a) chemical messenger(s) that transmit(s) information between nerves and body organs. a. Transmitters c. THC b. Ion d. Enzymes
	ANS: A PTS: 1 DIF: Bloom's: Remember REF: 2.3 Neurons: Structure, Function and Communication, Textbook Animation - Neuron and Transmitters, Online OBJ: LO7 Describe neurotransmitters and explain how neurons communicate at chemical synapses. MSC: TYPE: Easy
43.	Neurotransmitters are found in the: a. myelin sheath c. inhibitory sodium b. sodium ions d. end-bulbs
	ANS: D PTS: 1 DIF: Bloom's: Remember REF: 2.3 Neurons: Structure, Function, and Communication, Textbook Animation - Neuron and Transmitters, Online OBJ: LO7 Describe neurotransmitters and explain how neurons communicate at chemical synapses. MSC: TYPE: Easy
44.	What substance is found in the end bulbs? a. neurotransmitters c. inhibitory sodium b. sodium ions d. precursors
	ANS: A PTS: 1 DIF: Bloom's: Remember REF: 2.3 Neurons: Structure, Function, and Communication, Textbook Animation - Neuron and Transmitters, Online OBJ: LO7 Describe neurotransmitters and explain how neurons communicate at chemical synapses. MSC: TYPE: Easy
45.	If receptors in muscle fibers are thought of as locks, the keys are: a. the action potential of the axon b. synapses c. the resting state of the axon d. neurotransmitters
	ANS: D PTS: 1 DIF: Bloom's: Understand REF: 2.3 Neurons: Structure, Function, and Communication, Textbook OBJ: LO7 Describe neurotransmitters and explain how neurons communicate at chemical synapses. MSC: TYPE: Easy

46.	After the release of neurotransmitters in the synapse, neurotransmitters cross the synapse and: a. fit into specially designed axons b. cause the second neuron to open its chemical locks c. cause the process known as reuptake d. fit into specially designed receptors located on the second neuron's dendrites
	ANS: D PTS: 1 DIF: Bloom's: Understand REF: 2.3 Neurons: Structure, Function, and Communication, Textbook Animation - Neuron and Transmitters, Online OBJ: LO7 Describe neurotransmitters and explain how neurons communicate at chemical synapses. MSC: TYPE: Medium
47.	If a neurotransmitter key <i>opens</i> the receptor's lock, then the neurotransmitter is said to be: a. at the threshold b. excitatory c. positively charged d. at an action potential
	ANS: B PTS: 1 DIF: Bloom's: Apply REF: 2.3 Neurons: Structure, Function and Communication, Textbook Animation - Neuron and Transmitters, Online OBJ: LO7 Describe neurotransmitters and explain how neurons communicate at chemical synapses. MSC: TYPE: Medium
48.	If a neurotransmitter key <i>closes</i> the receptor's lock, then the neurotransmitter is said to be: a. at the threshold b. inhibitory c. positively charged d. at an action potential
	ANS: B PTS: 1 DIF: Bloom's: Apply REF: 2.3 Neurons: Structure, Function, and Communication, Textbook Animation - Neuron and Transmitters, Online OBJ: LO7 Describe neurotransmitters and explain how neurons communicate at chemical synapses. MSC: TYPE: Medium
49.	Excitatory neurotransmitters: a. open the receptor's lock b. slow down the speed of a nerve impulse c. reverse the charge of a sodium ion d. are released during the resting state
	ANS: A PTS: 1 DIF: Bloom's: Understand REF: 2.3 Neurons: Structure, Function, and Communication, Textbook Animation - Neuron and Transmitters, Online OBJ: LO7 Describe neurotransmitters and explain how neurons communicate at chemical synapses. MSC: TYPE: Medium
50.	Inhibitory neurotransmitters: a. close the receptor's lock b. slow down the speed of a nerve impulse c. reverse the charge of a sodium ion d. are released during the resting state
	ANS: A PTS: 1 DIF: Bloom's: Understand REF: 2.3 Neurons: Structure, Function, and Communication, Textbook Animation - Neuron and Transmitters, Online OBJ: LO7 Describe neurotransmitters and explain how neurons communicate at chemical synapses. MSC: TYPE: Medium

51.	The effect of a neurotransmitter on an adjacent neuron, muscle, or organ is: a. excitatory b. inhibitory c. either excitatory or inhibitory d. determined by the all-or-none law	
	ANS: C PTS: 1 DIF: Bloom's: Understand REF: 2,3 Neurons: Structure, Function, and Communication, Textbook Animation - Neuron a Transmitters, Online OBJ: LO7 Describe neurotransmitters and explain how neurons communicate at chemical syn MSC: TYPE: Easy	
52.	Excitatory transmitters chemical locks; inhibitory transmitters chemical locks. a. close; open	
	ANS: B PTS: 1 DIF: Bloom's: Understand REF: 2.3 Neurons: Structure, Function, and Communication, Textbook Animation - Neuron a Transmitters, Online OBJ: LO7 Describe neurotransmitters and explain how neurons communicate at chemical syn MSC: TYPE: Easy	
53.	A child puts her hand on a hot stove. She quickly removes it. This is an example of a(n), a involves a. learned response; reflexes	nd it
	ANS: C PTS: 1 DIF: Bloom's: Analyze REF: 2.3 Neurons: Structure, Function, and Communication, Textbook OBJ: LO8 Describe the sequence of the reflex response. MSC: TYPE: Medium	
54.	Neurons that carry information from the senses to the spinal cord are called neurons. a. spinal c. afferent b. motor d. efferent	
	ANS: C PTS: 1 DIF: Bloom's: Remember REF: 2.3 Neurons: Structure, Function, and Communication, Textbook OBJ: LO8 Describe the sequence of the reflex response. MSC: TYPE: Easy	
55.	If all the efferent neurons were removed from your nervous system, you would be unable to: a. process language c. solve complex problems b. move your body d. control your emotions	
	ANS: B PTS: 1 DIF: Bloom's: Analyze REF: 2.3 Neurons: Structure, Function, and Communication, Textbook OBJ: LO8 Describe the sequence of the reflex response. MSC: TYPE: Medium	
56.	Efferent neurons carry information away from the: a. axon c. synapse b. muscles d. spinal cord	
	ANS: D PTS: 1 DIF: Bloom's: Remember REF: 2.3 Neurons: Structure, Function, and Communication, Textbook OBJ: LO8 Describe the sequence of the reflex response. MSC: TYPE: Easy	

57.	The nerves in the body (excluding the brain and spinal cord) make up the: a. peripheral nervous system b. central nervous system c. primary nervous system d. secondary nervous system
	ANS: A PTS: 1 DIF: Bloom's: Understand REF: 2.4 Nervous System, Textbook Animation - Nervous Systems, Online OBJ: LO10 Classify the major divisions and subdivisions of the nervous system. MSC: TYPE: Easy
58.	As you're waiting to visit a friend in the hospital, you overhear a physician talking to a patient's parents. You don't hear the entire conversation, but only bits and pieces. There is something about an accident and a question regarding nerves reattaching. The physician replied that the nerves do have the ability to regrow. From your education in psychology, you guess that the nerves were probably part of the:
	a. spinal cordb. central nervous systemc. peripheral nervous systemd. limbic system
	ANS: C PTS: 1 DIF: Bloom's: Analyze REF: 2.4 Nervous System, Textbook Animation - Nervous Systems, Online OBJ: LO10 Classify the major divisions and subdivisions of the nervous system. MSC: TYPE: Medium
59.	Afferent is to efferent as is to a. sensory; motor
	ANS: A PTS: 1 DIF: Bloom's: Understand REF: 2.4 Nervous System, Textbook Animation - Nervous Systems, Online OBJ: LO11 Differentiate the functions of the major divisions and subdivisions of the nervous system MSC: TYPE: Medium
60.	The somatic nervous system contains: a. sympathetic division and parasympathetic division b. afferent and efferent fibers c. sensory and afferent fibers d. motor fibers and latent fibers
	ANS: B PTS: 1 DIF: Bloom's: Understand REF: 2.4 Nervous System, Textbook Animation - Nervous Systems, Online OBJ: LO11 Differentiate the functions of the major divisions and subdivisions of the nervous system MSC: TYPE: Easy
61.	Karen was able to live in a coma for several years even when taken off the respirator. This is because parts of the body not under conscious control continue to function. These parts are regulated by the: a. central nervous system b. autonomic nervous system c. somatic nervous system d. forebrain
	ANS: B PTS: 1 DIF: Bloom's: Analyze REF: 2.4 Nervous System, Textbook Animation - Nervous Systems, Online OBJ: LO11 Differentiate the functions of the major divisions and subdivisions of the nervous system MSC: TYPE: Medium

	a. parasympathetic nervous systemb. somatic nervous systemc. autonomic nervous systemd. peripheral nervous system
	ANS: A PTS: 1 DIF: Bloom's: Remember REF: 2.4 Nervous System, Textbook Animation - Nervous Systems, Online OBJ: LO11 Differentiate the functions of the major divisions and subdivisions of the nervous system. MSC: TYPE: Easy
63.	The two divisions of the nervous system are: a. sympathetic division and parasympathetic division b. somatic nervous system and central nervous system c. autonomic nervous system and central nervous system d. peripheral nervous system and central nervous system
	ANS: D PTS: 1 DIF: Bloom's: Remember REF: 2.4 Nervous System, Textbook Animation - Nervous Systems, Online OBJ: LO11 Differentiate the functions of the major divisions and subdivisions of the nervous system. MSC: TYPE: Easy
64.	You're looking at a book entitled <i>Your Autonomic Nervous System</i> . One of the chapter titles is really confusing based upon your knowledge of the autonomic nervous system. Which chapter seems to <u>not</u> fit your knowledge? a. The Sympathetic Division: Activating in Times of Stress b. Relaxing with the Parasympathetic Division c. The Autonomic Nervous System: You CAN Control It All! d. The Autonomic Nervous System: Part of The Peripheral Nervous System
	ANS: C PTS: 1 DIF: Bloom's: Evaluate REF: 2.4 Nervous System, Textbook Animation - Autonomic Nervous System, Online OBJ: LO11 Differentiate the functions of the major divisions and subdivisions of the nervous system. MSC: TYPE: Medium
65.	What part of your nervous system, which requires deep thought, do you use to correctly answer this question?
	 a. central nervous system b. somatic nervous system c. autonomic nervous system d. parasympathetic division
	ANS: A PTS: 1 DIF: Bloom's: Understand REF: 2.4 Nervous System, Textbook OBJ: LO11 Differentiate the functions of the major divisions and subdivisions of the nervous system. MSC: TYPE: Easy
66.	Which technique uses radio frequencies to study the structure of the brain? a. MRI scan b. SET scan d. the stereotaxic procedure
	ANS: A PTS: 1 DIF: Bloom's: Analyze REF: 2.5 Studying the Living Brain, Textbook OBJ: LO12 Describe the different technologies used to investigate the brain. MSC: TYPE: Medium

62. The specific part of the nervous system that is responsible for returning the body to a relaxed state is

67.		organization; function x-ray; gamma ray
	ANS: B PTS: 1 DIF: REF: 2.5 Studying the Living Brain, Textbook OBJ: LO12 Describe the different technologies MSC: TYPE: Easy	Bloom's: Analyze used to investigate the brain.
68.	is most likely having a(n): a. MRI scan c.	is working, he is asked to read words on a screen. He fMRI scan
	b. SET scan d ANS: C PTS: 1 DIF: REF: 2.5 Studying the Living Brain, Textbook OBJ: LO12 Describe the different technologies MSC: TYPE: Easy	x-ray scan Bloom's: Analyze used to investigate the brain.
69.	What is the main advantage of fMRI over PET sc a. PET scans can cause brain damage b. cost c. fMRI can be done with the person awake d. fMRI does not require injection of a radioacti	
	ANS: D PTS: 1 DIF: REF: 2.5 Studying the Living Brain, Textbook OBJ: LO12 Describe the different technologies MSC: TYPE: Medium	Bloom's: Evaluate used to investigate the brain.
70.	scan: a. studies the structure of the brain c.	m Magnetic Resonance Imaging (MRI) in that a PET uses radio frequencies identifies spinal cord injuries Bloom's: Analyze used to investigate the brain.
71.	Positron emission tomography (PET) is a techniqua. transplant fetal brain tissue b. repair damaged neurons in the spinal cord c. study the function of brain areas d. perform a frontal lobotomy	ue used to:
	ANS: C PTS: 1 DIF: REF: 2.5 Studying the Living Brain, Textbook OBJ: LO12 Describe the different technologies MSC: TYPE: Easy	Bloom's: Understand used to investigate the brain.

	b. are used for brain tissue transplantsc. have been shown to be ineffective in treating Parkinson's diseased. have only been performed on animals
	ANS: B PTS: 1 DIF: Bloom's: Remember REF: 2.5 Studying the Living Brain, Textbook OBJ: LO13 Describe experimental procedures to treat the brain. MSC: TYPE: Easy
73.	In treating Parkinson's disease with brain stimulation, the patient: a. undergoes painful shock treatment while under general anesthesia b. often develops uncontrollable seizures c. develops unwanted jerky movement d. controls the amount of stimulation
	ANS: D PTS: 1 DIF: Bloom's: Understand REF: 2.5 Studying the Living Brain, Textbook Video - A Brain Pacemaker, Online OBJ: LO13 Describe experimental procedures to treat the brain. MSC: TYPE: Easy
74.	.The three main divisions of the human brain are: a. forebrain, midbrain, and cerebrain b. topbrain, midbrain, and hindbrain c. forebrain, midbrain, and hindbrain d. neobrain, lateralbrain, and medialbrain
	ANS: C PTS: 1 DIF: Bloom's: Remember REF: 2.6 Brain: Structures and Functions, Textbook Animation - Parts of the Brain, Online OBJ: LO14 Identify and locate the major parts of the brain, and state their functions. MSC: TYPE: Easy
75.	The part of the brain that directly allows you to contemplate the answer to this question is the: a. hindbrain b. midbrain c. forebrain d. cerebellum
	ANS: C PTS: 1 DIF: Bloom's: Understand REF: 2.6 Brain: Structures and Functions, Textbook Animation - Parts of the Brain, Online OBJ: LO14 Identify and locate the major parts of the brain, and state their functions. MSC: TYPE: Easy
76.	Rex is an evil scientist and wants to take away humans' ability to use language, plan, and make decisions. What part of the brain should his newly invented "Death Ray Gun" destroy? a. limbic system c. thalamus b. reticular formation d. forebrain
	ANS: D PTS: 1 DIF: Bloom's: Analyze REF: 2.6 Brain: Structures and Functions, Textbook OBJ: LO14 Identify and locate the major parts of the brain, and state their functions. MSC: TYPE: Medium

72. Stereotaxic procedures:
a. cause a great deal of brain damage

77.	You are listening to a few songs that you really like since they are very relaxing. What part of your brain has a reward or pleasure center that is very active as you listen to the songs? a. Broca's area c. cerebellum b. medulla d. midbrain
	ANS: D PTS: 1 DIF: Bloom's: Analyze REF: 2.6 Brain: Structures and Functions, Textbook OBJ: LO14 Identify and locate the major parts of the brain, and state their functions. MSC: TYPE: Medium
78.	In what brain area do you find the reticular formation? a. midbrain c. occipital lobe b. medulla d. cerebellum
	ANS: A PTS: 1 DIF: Bloom's: Understand REF: 2.6 Brain: Structure and Functions, Textbook Animation - Parts of the Brain, Online OBJ: LO14 Identify and locate the major parts of the brain, and state their functions. MSC: TYPE: Easy
79.	The pons: a. controls vital reflexes such as respiration, heart rate, and blood pressure b. coordinates voluntary movements c. contains Purkinje cells d. connects the spinal cord to the brain and makes chemicals important in sleep
	ANS: D PTS: 1 DIF: Bloom's: Remember REF: 2.6 Brain: Structures and Functions, Textbook Video - "Hindbrain Structures," Online OBJ: LO14 Identify and locate the major parts of the brain, and state their functions. MSC: TYPE: Easy
80.	The medulla: a. controls vital reflexes such as respiration, heart rate, and blood pressure b. initiates voluntary movements c. regulates the production of speech d. connects the spinal cord to the brain and makes chemicals important in sleep
	ANS: A PTS: 1 DIF: Bloom's: Remember REF: 2.6 Brain: Structures and Functions, Textbook Video - "Hindbrain Structures," Online OBJ: LO14 Identify and locate the major parts of the brain, and state their functions. MSC: TYPE: Easy
81.	The cerebellum is an important part of the hindbrain that: a. initiates voluntary movement b. influences social-emotional behavior c. coordinates voluntary movements d. makes humans distinct from all other animals
	ANS: C PTS: 1 DIF: Bloom's: Understand REF: 2.6 Brain: Structures and Functions, Textbook Video - Hindbrain Structures, Online OBJ: LO14 Identify and locate the major parts of the brain, and state their functions. MSC: TYPE: Easy

82.	Which of the following activities would <u>most</u> likely involve the cerebellum? a. experiencing emotion b. long-term memory c. dancing d. listening to a foreign language
	ANS: C PTS: 1 DIF: Bloom's: Analyze REF: 2.6 Brain: Structures and Functions, Textbook Video - Hindbrain Structures, Online OBJ: LO14 Identify and locate the major parts of the brain, and state their functions. MSC: TYPE: Medium
83.	The thin layer of cells that cover the surface of the forebrain is called the: a. cortex c. cerebellum b. myelin sheath d. thalamus
	ANS: A PTS: 1 DIF: Bloom's: Remember REF: 2.6 Brain: Structures and Functions, Textbook Animation - Parts of the Brain, Online Video - The Cortex, Online OBJ: LO15 Identify and locate the four lobes in the cerebral cortex, and state their key functions. MSC: TYPE: Easy
84.	The human cortex is wrinkled because: a. it is very old compared to more primitive brains b. wrinkling increases the surface area c. the cell body causes a constriction at the surface d. the axons pull down on certain parts of the cortex
	ANS: B PTS: 1 DIF: Bloom's: Analyze REF: 2.6 Brain: Structures and Functions, Textbook Video - The Cortex, Online OBJ: LO15 Identify and locate the four lobes in the cerebral cortex, and state their key functions. MSC: TYPE: Easy
85.	The forebrain can be divided into lobes. Which of the following is <u>not</u> a lobe? a. frontal b. parietal c. lateral d. occipital
	ANS: C PTS: 1 DIF: Bloom's: Analyze REF: 2.6 Brain: Structures and Functions, Textbook Animation - Parts of the Brain, Online OBJ: LO15 Identify and locate the four lobes in the cerebral cortex, and state their key functions. MSC: TYPE: Easy
86.	Which of the following descriptions of the lobes of the cortex is incorrect? a. frontal—involved with personality and emotion b. parietal—involved with motor behaviors c. temporal—involved with processing auditory experience d. occipital—involved with processing visual information
	ANS: B PTS: 1 DIF: Bloom's: Analyze REF: 2.6 Brain: Structures and Functions, Textbook Animation - Parts of the Brain, Online Video - The Cortex, Online OBJ: LO15 Identify and locate the four lobes in the cerebral cortex, and state their key functions. MSC: TYPE: Medium

	ANS: D PTS: 1 DIF: Bloom's: Analyze REF: 2.6 Brain: Structures and Functions, Textbook Video - The Cortex, Online OBJ: LO15 Identify and locate the four lobes in the cerebral cortex, and state their key functions. MSC: TYPE: Medium
88.	The frontal lobe is involved in: a. social-emotional behaviors b. reflexive actions c. sensory experiences d. Wernicke's Aphasia
	ANS: A PTS: 1 DIF: Bloom's: Remember REF: 2.6 Brain: Structures and Functions, Textbook Video - The Cortex, Online OBJ: LO15 Identify and locate the four lobes in the cerebral cortex, and state their key functions. MSC: TYPE: Easy
89.	After a serious blow to the head, Hector underwent a dramatic personality change. A well-organized, extroverted person before the accident, he no longer could plan, or adjust to new social situations. Hector would also laugh uncontrollably at inappropriate times. What part of Hector's brain appears to have been damaged? a. thalamus c. frontal lobe b. temporal lobe d. hippocampus
	ANS: C PTS: 1 DIF: Bloom's: Analyze REF: 2.6 Brain: Structures and Functions, Textbook OBJ: LO15 Identify and locate the four lobes in the cerebral cortex, and state their key functions. MSC: TYPE: Medium
90.	 The story of Phineas Gage demonstrates that: a. the frontal lobe seems to be involved in emotion and decision making b. a person cannot live if the frontal lobe is damaged c. a person cannot walk if the frontal lobe is damaged d. the frontal lobe seems to be a large mass of tissue that does not have any particular function
	ANS: A PTS: 1 DIF: Bloom's: Analyze REF: 2.6 Brain: Structures and Functions, Textbook OBJ: LO15 Identify and locate the four lobes in the cerebral cortex, and state their key functions. MSC: TYPE: Medium
91.	Based upon your textbook, the cognitive functions of the frontal lobe include all but one of the following. Which one is <u>not</u> among the functions found in the frontal lobe? a. attention c. organizing b. decision making d. processing tactile information
	ANS: D PTS: 1 DIF: Bloom's: Analyze REF: 2.6 Brain, Structures and Functions, Textbook OBJ: LO15 Identify and locate the four lobes in the cerebral cortex, and state their key functions. MSC: TYPE: Medium

d. cortex

87. The brain area that <u>most</u> distinguishes us from animals is the:

a. thyroidb. cerebellum

92.	The motor cortex is located in the lobe. a. somatosensory
	ANS: B PTS: 1 DIF: Bloom's: Remember REF: 2.6 Brain: Structures and Functions, Textbook Animation - Parts of the Brain, Online Video - The Cortex, Online OBJ: LO15 Identify and locate the four lobes in the cerebral cortex, and state their key functions. MSC: TYPE: Easy
93.	The strip of the cortex in the frontal lobe that is involved in the initiation of all voluntary movements is called:
	a. the somatosensory cortexb. the sensory homunculusc. Broca's aread. the motor cortex
	ANS: D PTS: 1 DIF: Bloom's: Understand REF: 2.6 Brain: Structures and Functions, Textbook Animation - Parts of the Brain, Online Video of The Cortex, Online OBJ: LO15 Identify and locate the four lobes in the cerebral cortex, and state their key functions. MSC: TYPE: Easy
94.	The motor cortex initiates all voluntary movements and is found in: a. the limbic system c. Broca's area b. the parietal lobe d. the frontal lobe
	ANS: D PTS: 1 DIF: Bloom's: Understand REF: 2.6 Brain: Structures and Functions, Textbook Animation - Parts of the Brain, Online Video - The Cortex, Online OBJ: LO15 Identify and locate the four lobes in the cerebral cortex, and state their key functions. MSC: TYPE: Easy
95.	The somatosensory cortex is located in the: a. frontal lobe c. motor cortex b. parietal lobe d. occipital lobe
	ANS: B PTS: 1 DIF: Bloom's: Remember REF: 2.6 Brain: Structures and Functions, Textbook Animation - Parts of the Brain, Online Video - The Cortex, Online OBJ: LO15 Identify and locate the four lobes in the cerebral cortex, and state their key functions. MSC: TYPE: Easy
96.	If your parietal lobe is damaged, you would have difficulty: a. imitating motor movements b. coordinating movements on the left side and right side of your body c. with visual perception d. recognizing through touch the shape of a telephone in a dark room
	ANS: D PTS: 1 DIF: Bloom's: Analyze REF: 2.6 Brain: Structures and Functions, Textbook OBJ: LO15 Identify and locate the four lobes in the cerebral cortex, and state their key functions. MSC: TYPE: Medium

97.	Wernicke's area is located in the lobe, whereas Broca's area is located in the lobe. a. occipital; temporal c. parietal; occipital b. temporal; frontal d. frontal; parietal
	ANS: B PTS: 1 DIF: Bloom's: Remember REF: 2.6 Brain: Structures and Functions, Textbook Animation - Broca's and Wernicke's Aphasia, Online OBJ: LO15 Identify and locate the four lobes in the cerebral cortex, and state their key functions. MSC: TYPE: Easy
98.	Wernicke's aphasia and Broca's aphasia are evidence that: a. language abilities are more inherited than acquired b. special areas of the lobes of the cortex control language abilities c. if one area is damaged, the other takes over for it d. human language is so complex that a number of things can go wrong with it
	ANS: B PTS: 1 DIF: Bloom's: Analyze REF: 2.6 Brain: Structures and Functions, Textbook Animation - "Broca's and Wernicke's Aphasia, Online OBJ: LO15 Identify and locate the four lobes in the cerebral cortex, and state their key functions. MSC: TYPE: Medium
99.	Which of the following is located in the occipital lobe? a. primary visual c. sensory b. primary auditory d. motor
	ANS: A PTS: 1 DIF: Bloom's: Remember REF: 2.6 Brain: Structures and Functions, Textbook OBJ: LO15 Identify and locate the four lobes in the cerebral cortex, and state their key functions. MSC: TYPE: Easy
100.	A person with visual agnosia would have problems: a. transmitting electrical messages from the eyes b. recognizing objects or persons they know c. seeing fine parts of a visual stimulus d. seeing objects on a particular side of his or her body
	ANS: B PTS: 1 DIF: Bloom's: Analyze REF: 2.6 Brain: Structures and Functions, Textbook OBJ: LO15 Identify and locate the four lobes in the cerebral cortex, and state their key functions. MSC: TYPE: Medium
101.	What part of the brain do we share in common with the alligator? a. Broca's area c. limbic system b. cortex d. Wernicke's area
	ANS: C PTS: 1 DIF: Bloom's: Analyze REF: 2.6 Brain: Structures and Functions, Textbook Video - Limbic System, Online OBJ: LO16 Identify and locate key structures in the limbic system, and state their functions. MSC: TYPE: Easy

102.	One of the functions of the limbic system is to: a. regulate motivational and emotional behaviors b. moderate pain signals from the muscles c. regulate blood pressure and heart rate d. pass information from one hemisphere of the brain to the other
	ANS: A PTS: 1 DIF: Bloom's: Understand REF: 2.6 Brain: Structures and Functions, Textbook Video - Limbic System, Online OBJ: LO16 Identify and locate key structures in the limbic system, and state their functions. MSC: TYPE: Easy
103.	You are watching a really scary movie. The main character is about to be attacked by a monster. You look over to the person sitting next to you and see fear in his face. What part of the limbic system allows you to evaluate his expression? a. hypothalamus b. hippocampus c. thalamus d. amygdala
	ANS: D PTS: 1 DIF: Bloom's: Analyze REF: 2.6 Brain: Structures and Functions, Textbook Video - Limbic System, Online OBJ: LO16 Identify and locate key structures in the limbic system, and state their functions. MSC: TYPE: Medium
104.	A patient known as H. M., while undergoing brain surgery, suffered accidental brain damage. After the surgery, while he retained all of his old memories, he could no longer make new ones. H. M. could not retain new information for more than about 30 seconds. What part of his limbic system was damaged? a. hypothalamus c. hippocampus b. thalamus d. cortex
	ANS: C PTS: 1 DIF: Bloom's: Analyze REF: 2.6 Brain: Structures and Functions, Textbook Video - Limbic System, Online OBJ: LO16 Identify and locate key structures in the limbic system, and state their functions. MSC: TYPE: Medium
105.	The hippocampus is involved with: a. receiving sensory information c. regulating sexual behavior b. putting memories into permanent storage d. controlling the secretion of hormones ANS: B PTS: 1 DIF: Bloom's: Understand REF: 2.6 Brain: Structures and Functions, Textbook Video - Limbic System, Online OBJ: LO16 Identify and locate key structures in the limbic system, and state their functions.
106.	MSC: TYPE: Easy What part of the brain could be compared to a switchboard receiving calls from all over the country and then directing the paths of these incoming calls? a. thalamus c. occipital lobe b. hypothalamus d. cerebellum
	ANS: A PTS: 1 DIF: Bloom's: Understand REF: 2.6 Brain: Structures and Functions, Textbook Video - Limbic System, Online OBJ: LO16 Identify and locate key structures in the limbic system, and state their functions. MSC: TYPE: Medium

107.	Hormones are secreted from glands located throughout the body. These glands are called the: a. endocrine system b. endorphin system c. limbic system d. pituitary system
	ANS: A PTS: 1 DIF: Bloom's: Understand REF: 2.7 The Endocrine System, Textbook OBJ: LO19 Locate and describe the key elements of the endocrine system. MSC: TYPE: Easy
108.	The endocrine system and the nervous system are basically: a. similar—they are both chemical systems b. similar—they both send information throughout the body c. different—the nervous system affects the brain and the endocrine system affects the body d. different—the nervous system causes positive functioning and the endocrine system causes dysfunctions
	ANS: B PTS: 1 DIF: Bloom's: Analyze REF: 2.7 The Endocrine System, Textbook OBJ: LO19 Locate and describe the key elements of the endocrine system. MSC: TYPE: Medium
109.	are secreted by the glands that make up the endocrine system. a. Gonads c. Rhodopsins b. Hormones d. Pancreas
	ANS: B PTS: 1 DIF: Bloom's: Remember REF: 2.7 The Endocrine System, Textbook OBJ: LO19 Locate and describe the key elements of the endocrine system. MSC: TYPE: Easy
110.	The structure known as the "control center" of the endocrine system is the: a. thyroid b. adrenal c. hypothalamus d. parathyroid
	ANS: C PTS: 1 DIF: Bloom's: Remember REF: 2.7 The Endocrine System, Textbook OBJ: LO19 Locate and describe the key elements of the endocrine system. MSC: TYPE: Easy
111.	Which of the following regulates growth through secretion of growth hormone? a. pancreas b. gonads c. thyroid d. anterior pituitary
	ANS: D PTS: 1 DIF: Bloom's: Remember REF: 2.7 The Endocrine System, Textbook OBJ: LO20 Discuss some ways that hormones regulate behavior. MSC: TYPE: Easy

112.	Hormones that regulate sexual development and the growth of the sex organs are produced by the: a. pancreas c. adrenal glands b. gonads d. posterior pituitary
	ANS: B PTS: 1 DIF: Bloom's: Understand REF: 2.7 The Endocrine System, Textbook OBJ: LO20 Discuss some ways that hormones regulate behavior. MSC: TYPE: Easy
TRUE	E/FALSE
1.	A family history of Alzheimer's disease does not affect an individual's risk of Alzheimer's.
	ANS: F PTS: 1 DIF: Bloom's: Understand REF: 2.1 Introduction, Textbook MSC: TYPE: Medium DIF: Bloom's: Understand OBJ: LO1 Describe Alzheimer's disease.
2.	DNA is made up of chromosomes.
	ANS: F PTS: 1 DIF: Bloom's: Remember REF: 2.2 Genes and Evolution, Textbook Animation - Genes Overview, Online OBJ: LO2 Describe the structures and processes involved in genetic transmission. MSC: TYPE: Easy
3.	There are 23 pairs of chromosomes in humans.
	ANS: T PTS: 1 DIF: Bloom's: Remember REF: 2.2 Genes and Evolution, Textbook Animation - Genes Overview, Online OBJ: LO2 Describe the structures and processes involved in genetic transmission. MSC: TYPE: Easy
4.	Glial cells are the most numerous brain cells.
	ANS: T PTS: 1 DIF: Bloom's: Remember REF: 2.3 Neuron's: Structure, Function, and Communication, Textbook Animation - Neuron and Transmitters, Online OBJ: LO4 Identify the main functions of glial cells. MSC: TYPE: Easy
5.	The dendrite is the input portion of the neuron.
	ANS: T PTS: 1 DIF: Bloom's: Remember REF: 2.3 Neurons: Structure, Function, and Communication, Textbook Animation - Neuron and Transmitters, Online OBJ: LO5 Identify the various parts of the neuron and explain how a neuron functions. MSC: TYPE: Easy

	ANS: T PTS: 1 DIF: Bloom's: Remember REF: 2.3 Neurons: Structure, Function, and Communication, Textbook Animation - Neuron and Transmitters, Online OBJ: LO5 Identify the various parts of the neuron and explain how a neuron functions. MSC: TYPE: Easy
7.	As the action potential is traveling down the axon, it can increase or decrease in speed.
	ANS: F PTS: 1 DIF: Bloom's: Understand REF: 2.3 Neurons: Structure, Function and Communication, Textbook Animation - Neuron and Transmitters, Online OBJ: LO6 Describe the sequence of the action potential and neural impulse. MSC: TYPE: Easy
8.	The nerve impulse is called an action potential.
	ANS: T PTS: 1 DIF: Bloom's: Remember REF: 2.3 Neurons: Structure, Function and Communication, Textbook Animation - Neuron and Transmitters, Online OBJ: LO6 Describe the sequence of the action potential and neural impulse. MSC: TYPE: Easy
9.	The action potential occurs when negative sodium ions rush inside the axon.
	ANS: F PTS: 1 DIF: Bloom's: Understand REF: 2.3 Neurons: Structure, Function, and Communication, Textbook Animation - Neuron and Transmitters, Online OBJ: LO6 Describe the sequence of the action potential and neural impulse. MSC: TYPE: Easy
10.	Inhibitory neurotransmitters close the chemical locks in the heart muscle.
	ANS: T PTS: 1 DIF: Bloom's: Understand REF: 2.3 Neurons: Structure, Function, and Communication, Textbook Animation - Neuron and Transmitters, Online OBJ: LO7 Describe neurotransmitters and explain how neurons communicate at chemical synapses MSC: TYPE: Easy
11.	The relationship between a neurotransmitter and receptor is like a key and lock.
	ANS: T PTS: 1 DIF: Bloom's: Understand REF: 2.3 Neurons: Structure, Function, and Communication, Textbook Animation - Neuron and Transmitters, Online OBJ: LO7 Describe neurotransmitters and explain how neurons communicate at chemical synapses MSC: TYPE: Easy

6. The space between neurons is called the synapse.

	Auton	omic Nervous	System,	Online e functions of		 Nervous Systems, or divisions and sub 			
13.	The sy	The sympathetic nervous system returns the body to a calmer state.							
		2.4 Nervous S	•	Fextbook Anie functions of	imation	Bloom's: Understar - Nervous Systems, or divisions and sub	Online	ervous system.	
14.	MRI s	MRI scans require an injection of a radioactive material into the patient's blood.							
	OBJ:	S: F PTS: 1 DIF: Bloom's: Analyze F: 2.5 Studying the Living Brain, Textbook J: LO12 Describe the different technologies used to investigate the brain. C: TYPE: Easy							
15.	The cerebellum controls vital reflexes.								
	OBJ:	2.6 Brain: Stru		and Functions,	Textbo	Bloom's: Remember ok Video - Hindbrathe brain, and state	ain Structures, On	line	
16.	The fr	The frontal lobes govern executive functions.							
	OBJ:	2.6 Brain: Stru		and Functions,	Textbo	Bloom's: Remember ok Video - Cerebrathe brain, and state	al Cortex, Online		
17.	In Bro	In Broca's aphasia, the person has difficulty speaking in a fluent way.							
	Broca' OBJ:	2.6 Brain: Struss and Wernicks	ictures a e's Apha	and Functions, asia, Online	Textbo	Bloom's: Understar ok Video - Cerebra ne cerebral cortex, a	al Cortex, Online		
18.	The pr	rimary visual co	ortex tur	rns visual sensa	ation int	o a complete, mean	ingful perception.		
	OBJ:	2.6 Brain: Stru		and Functions,	Textbo	Bloom's: Remembe ok Video - Cerebra ne cerebral cortex, a	al Cortex, Online	functions.	

DIF: Bloom's: Understand

12. The autonomic nervous system is part of the central nervous system.

PTS: 1

ANS: F

	ANS: F PTS: 1 DIF: Bloom's: Remember REF: 2.6 Brain: Structures and Functions, Textbook Video - Limbic System, Online OBJ: LO16 Identify and locate key structures in the limbic system, and state their functions. MSC: TYPE: Easy							
20.	The hypothalamus plays a major role in eating, drinking and other drives.							
	ANS: T PTS: 1 DIF: Bloom's: Remember REF: 2.6 Brain: Structures and Functions, Textbook Video - Limbic System, Online OBJ: LO16 Identify and locate key structures in the limbic system, and state their functions. MSC: TYPE: Easy							
21.	When a child watches violence on TV, there is an increase in the activity of the cerebellum.							
	ANS: F PTS: 1 DIF: Bloom's: Analyze REF: 2.6 Brain: Structures and Functions, Textbook Video - Limbic System, Online OBJ: LO16 Identify and locate key structures in the limbic system, and state their functions. MSC: TYPE: Medium							
22.	Male and female brains look identical in brain scans during problem solving.							
	ANS: F PTS: 1 DIF: Bloom's: Understand REF: 2.6 Brain: Structures and Functions, Textbook Video - Inside the Female Brain, Online OBJ: LO17 Identify sex differences in the brain. MSC: TYPE: Easy							
23.	Women have 15-20% more neurons in their brain compared to men.							
	ANS: T PTS: 1 DIF: Bloom's: Remember REF: 2.6 Brain: Structures and Functions, Textbook Video - Limbic System, Online OBJ: LO17 Identify sex differences in the brain. MSC: TYPE: Easy							
24.	Women's brains are more effective at solving rotating figures problems men's brains.							
	ANS: F PTS: 1 DIF: Bloom's Analyze REF: 2.6 Brain: Structures and Functions, Textbook Video - Limbic System, Online OBJ: LO17 Identify sex differences in the brain. MSC: TYPE: Easy							
25.	The left hemisphere is good at recognizing tone of voice.							
	ANS: F PTS: 1 DIF: Bloom's: Analyze REF: 2.6 Brain: Structures and Functions, Textbook OBJ: LO18 Describe lateralization of brain functions. MSC: TYPE: Medium							
26.	The left hemisphere is good at language functions.							
	ANS: T PTS: 1 DIF: Bloom's: Analyze REF: 2.6 Brain: Structures and Functions, Textbook OBJ: LO18 Describe lateralization of brain functions. MSC: TYPE: Medium							

19. The hippocampus relays sensory information to areas of the cortex.

27. The right hemisphere is better at math skills than is the left hemisphere.

ANS: F PTS: 1 DIF: Bloom's: Analyze

REF: 2.6 Brain: Structures and Functions, Textbook

OBJ: LO18 Describe lateralization of brain functions. MSC: TYPE: Medium

28. The left hemisphere processes information by examining each separate piece rather than the whole.

ANS: T PTS: 1 DIF: Bloom's: Analyze

REF: 2.6 Brain: Structures and Functions, Textbook

OBJ: LO18 Describe lateralization of brain functions. MSC: TYPE: Medium

SHORT ANSWER

1. Why should psychologists study the brain?

ANS:

Answers may vary, but should note the relationship of the brain to mental functions and behavior.

PTS: 1 DIF: Bloom's: Analyze REF: 2.1 Introduction, Textbook

OBJ: LO1 Describe Alzheimer's disease. MSC: TYPE: Medium

2. What is the relationship between chromosomes, DNA, and genes?

ANS:

A **chromosome** is a short, rodlike, microscopic structure that contains tightly coiled strands of the chemical DNA.

DNA is made up of four chemicals. The order in which the four different chemicals combine creates a microscopic chemical alphabet. This chemical alphabet is used to write instructions for the development and assembly of the 100 trillion highly specialized cells that make up the brain and body.

A gene is a specific segment on the strand of DNA that contains instructions for making proteins.

PTS: 1 DIF: Bloom's: Understand

REF: 2.2 Genes and Evolution, Textbook | Animation - Genes Overview, Online OBJ: LO2 Describe the structures and processes involved in genetic transmission.

MSC: TYPE: Easy

3. Briefly explain the function of the neuron cell body, dendrites, axon, myelin sheath, and end bulbs. Draw a diagram showing the structures.

ANS:

The **cell body** (or soma) is a relatively large, egg-shaped structure that provides fuel, manufactures chemicals, and maintains the entire neuron in working order.

Dendrites are branchlike extensions that arise from the cell body; they receive signals from other neurons, muscles, or sense organs and pass these signals to the cell body.

The **axon** is a single threadlike structure that extends from, and carries signals away from, the cell body to neighboring neurons, organs, or muscles.

The **myelin sheath** looks like separate tubelike segments composed of fatty material that wraps around and insulates an axon. The myelin sheath prevents interference from electrical signals generated in adjacent axons.

End bulbs or **terminal bulbs** look like tiny bubbles that are located at the extreme ends of the axon's branches. Each end bulb is like a miniature container that stores chemicals called neurotransmitters, which are used to communicate with neighboring cells.

PTS: 1 DIF: Bloom's: Understand

REF: 2.3 Neurons: Structure, Function and Communication, Textbook | Animation - Neuron and

Transmitters, Online

OBJ: LO5 Identify the various parts of the neuron and explain how a neuron functions.

MSC: TYPE: Medium

4. What roles do afferent neurons, interneurons, and efferent neurons play in a reflex?

ANS:

Afferent, or **sensory**, **neurons** carry information from the sensors to the spinal cord.

An **interneuron** is a relatively short neuron whose primary task is making connections between other neurons.

Efferent, or **motor**, **neurons** carry information away from the spinal cord to produce responses in various muscles and organs throughout the body.

PTS: 1 DIF: Bloom's: Understand

REF: 2.3 Neurons: Structure, Function, & Communication, Textbook

OBJ: LO8 Describe the sequence of the reflex response. MSC: TYPE: Easy

5. Differentiate between nerves and neurons.

ANS:

Nerves are stringlike bundles of axons and dendrites that come from the spinal cord and are held together by connective tissue. Nerves carry information from the senses, skin, muscles, and the body's organs to and from the spinal cord.

A **neuron** is a brain cell with two specialized extensions. One extension is for receiving electrical signals, and a second, longer extension is for transmitting electrical signals.

PTS: 1 DIF: Bloom's: Remember

REF: 2.4 Nervous System, Textbook OBJ: LO9 Differentiate between nerves and neurons.

MSC: TYPE: Easy

6. Describe the major divisions of the nervous system and their subdivisions.

ANS:

The **central nervous system** is made up of the brain and spinal cord. From the bottom of the brain emerges the spinal cord, which is made up of neurons and bundles of axons and dendrites that carry information back and forth between the brain and the body.

The **peripheral nervous system** includes all the nerves that extend from the spinal cord and carry messages to and from various muscles, glands, and sense organs located throughout the body.

Subdivisions of the Peripheral Nervous System

The **somatic nervous system** consists of a network of nerves that connect either to sensory receptors or to muscles that you can move voluntarily, such as muscles in your limbs, back, neck, and chest.

The **autonomic nervous system** regulates heart rate, breathing, blood pressure, digestion, hormone secretion, and other functions. The autonomic nervous system usually functions without conscious effort, which means that only a few of its responses, such as breathing, can also be controlled voluntarily.

Subdivisions of the Autonomic Nervous System

The **sympathetic division**, which is triggered by threatening or challenging physical or psychological stimuli, increases physiological arousal and prepares the body for action.

The **parasympathetic division** returns the body to a calmer, relaxed state and is involved in digestion.

PTS: 1 DIF: Bloom's: Remember

REF: 2.4 Nervous System, Textbook | Animation - Nervous Systems, Online

OBJ: LO11 Differentiate the functions of the major divisions and subdivisions of the nervous system.

MSC: TYPE: Easy

7. Describe the role that MRI, fMRI, and PET scans have played in helping us to understand the human brain.

ANS:

MRI, or **magnetic resonance imaging**, involves passing nonharmful radio frequencies through the brain. A computer measures how these signals interact with brain cells and transforms this interaction into an incredibly detailed image of the brain (or body). MRIs are used to study the structure of the brain.

A newer and different version of the MRI is called the fMRI. The "f" in fMRI stands for *functional*. The fMRI measures the **changes in** activity of specific neurons that are functioning during cognitive tasks, such as thinking, listening, or reading. *fMRI* scans can map activities of neurons that are involved in various cognitive *functions*. In comparison, *MRI* scans show the location of *structures* inside the brain as well as identify sites of brain damage.

A **PET scan,** or positron emission tomography, involves injecting a slightly radioactive solution into the blood and then measuring the amount of radiation absorbed by neurons. Very active neurons absorb more radioactive solution than less active ones. Different levels of absorption are represented by colors: red and yellow indicate maximum activity of neurons, while blue and green indicate minimal activity.

PTS: 1 DIF: Bloom's: Understand REF: 2.5 Studying the Living Brain, Textbook

OBJ: LO12 Describe the different technologies used to investigate the brain.

MSC: TYPE: Easy

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8. What does the case of Phineas Gage teach us about the brain?

ANS:

Answer may vary, but should note the importance of the frontal lobe in emotional regulation and decision making.

PTS: 1 DIF: Bloom's: Analyze REF: 2.6 Brain: Structures and Functions, Textbook

OBJ: LO15 Identify and locate the four lobes in the cerebral cortex, and state their key functions.

MSC: TYPE: Medium

9. Illustrate the different functions of the hemispheres.

ANS:

Left Hemisphere

Verbal The left hemisphere is very good at all language-related abilities: speaking, understanding language, carrying on a conversation, reading, writing, and spelling.

Mathematical The left hemisphere is very good at mathematical skills: adding, subtracting, multiplying, dividing, and so on. Generally, the right hemisphere can perform simple addition and subtraction but not more complex mathematics.

Analytic The left hemisphere appears to process information by analyzing each separate piece that makes up a whole. For example, the left hemisphere would recognize a face by analyzing piece by piece its many separate parts: nose, eyes, lips, cheeks, and so on.

Right Hemisphere

Nonverbal Although usually mute, the right hemisphere has a childlike ability to read, write, spell, and understand speech. For example, the right hemisphere can understand simple sentences and read simple words.

Spatial The right hemisphere is very good at solving spatial problems, such as arranging blocks to match a geometric design. Because the hemispheres control opposite sides of the body, the left hand (right hemisphere) is best at completing spatial tasks.

Holistic The right hemisphere appears to process information by combining parts into a meaningful whole. For example, the right hemisphere is better at recognizing and identifying whole faces.

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OBJ: LO18 Describe lateralization of brain functions. MSC: TYPE: Easy