### **Discovery Series Introduction to Psychology 1st Edition Plotnik Test Bank**

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**Chapter 2: Biological Bases of Behavior** 

### **MULTIPLE 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: DPTS: 1DIF: Bloom's: RememberREF: 2.1 Introduction, Textbook | Video - Alzheimer's Disease, Online | Video - Declining MentalAcuity, OnlineOBJ: LO1 Describe Alzheimer's disease.MSC: TYPE: Easy

- 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: APTS: 1DIF:Bloom's: UnderstandREF: 2.1 Introduction, Textbook | Video - Alzheimer's Disease, Online | Video - Declining MentalAcuity, OnlineOBJ:LO1 Describe Alzheimer's disease.MSC: TYPE: Easy

- 3. Which of the following statements best 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	OBJ:	LO1 Describe Alzheimer's disease.
MSC:	TYPE: Medium		

- 4. \_\_\_\_\_ are chains of chemicals arranged like rungs on a twisting ladder.
  - a. Genes c. Opsins
  - b. Neurons d. Neurotransmitters

ANS: APTS: 1DIF:Bloom's: RememberREF: 2.2 Genes and Evolution, Textbook | Animation - Genes Overview, OnlineOBJ: LO2 Describe the structures and processes involved in genetic transmission.MSC: TYPE: Easy

5. Chromosomes consist of: c. DNA a. zygotes 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. gene c. chromosome b. zygote d. 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 c. DNA, zygote, genes, chromosomes b. genes, DNA, chromosomes, zygote 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 c. DNA b. genomes 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 PTS: 1 ANS: A 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 PTS: 1 ANS: D 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
  - b. dominant; recessive

c. recessive; dominant

- d. recessive; phenotypic
- ANS:BPTS:1DIF:Bloom's: RememberREF:2.2 Genes and Evolution, Textbook | Animation Inheriting Eye Color, OnlineOBJ: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. bluec. greenb. brownd. 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 genesb. natural selectionsc. adaptationsd. 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. The two groups of cells in your brain are: a. glial cells and astrocytes c. genes and peripheral cells b. neurons and axons d. neurons and glial cells ANS: D PTS: 1 DIF: Bloom's: Remember REF: 2.3 Neurons: Structure, Function, and Communication, Textbook | Animation - Neuron and Transmitters, Online OBJ: LO4 Identify the main functions of glial cells. MSC: TYPE: Easy 17. Which brain cells are responsible for providing insulation around the neuron? a. GABA cells c. axon cells b. curare cells d. glial cells ANS: D PTS: 1 DIF: Bloom's: Understand REF: 2.3 Neurons: Structure, Function, and Communication, Textbook | Animation - Neuron and OBJ: LO4 Identify the main functions of glial cells. Transmitters, Online MSC: TYPE: Easy 18. Glial cells are to \_\_\_\_\_ as neurons are to \_\_\_\_\_. a. support; transmit c. support; insulate d. Alzheimer's disease; ADHD b. transmit; insulate ANS: A PTS: 1 DIF: Bloom's: Understand REF: 2.3 Neurons: Structure, Function, and Communication, Textbook | Animation - Neuron and Transmitters, Online OBJ: LO4 Identify the main functions of glial cells. MSC: TYPE: Medium 19. 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: Remember REF: 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 20. Which structures specialize in receiving electrical signals and transmitting electrical signals? c. dendrites a. glial cells b. neurons d. astrocytes DIF: Bloom's: Remember ANS: B PTS: 1 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.

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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: c. 2000 miles per hour a. 2 miles per hour b. 200 miles per hour d. 20,000 miles per hour DIF: Bloom's: Remember ANS: B PTS: 1 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. c. cell body a. axon b. myelin sheath d. synapse ANS: C DIF: Bloom's: Understand PTS: 1 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 d. lobe b. dendrite 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 the cell body? c. end bulb a. axon b. cell body d. dendrites 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 27. "This is a bad television set. We're getting lots of interference from other electrical appliances in our apartment." You remember the structures of the neuron and say, "Wish we had a television set covered with a(n)..." a. myelin sheath c. dendrite b. axon d. neurotransmitter ANS: A 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 28. Tiny sacs or vesicles that are filled with neurotransmitters are located in the: a. end bulbs dendrites c. b. axon d. synapse 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 29. A synapse is the: a. part of the dendrite that receives incoming signals b. small space between the end bulb and its neighboring dendrite, muscle fiber, or body organ c. chemical that transmits signals from one neuron to another d. signal that travels from one neuron to another 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 30. End bulbs release neurotransmitters into the: a. cell body c. myelin sheath b. synapse d. axon 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

- 31. The membrane of the axon has the unique ability to:
  - a. ionize itself

- c. open and close its chemical gates
- b. change its size
- d. negatively charge the dendrites

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: Medium

32. Opposite-charged ions \_\_\_\_\_ and like-charged ions \_\_\_\_\_.
a. attract; repel c. have sodium; have protein
b. are permeable; are semipermeable d. are positive; are negative

ANS: A 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
- 33. When a neuron is in a resting state, the majority of the particles in the fluid surrounding the neuron are:
  - a. positive sodium ions
  - b. sodium ions that have yet to pick up a charge
  - c. chloride ions
  - d. chemically inert

ANS: APTS: 1DIF: Bloom's: UnderstandREF: 2.3 Neurons: Structure, Function, and Communication, TextbookOBJ: LO6 Describe the sequence of the action potential and neural impulse.MSC: 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:BPTS:1DIF:Bloom's:UnderstandREF:2.3 Neurons:Structure, Function, and Communication, TextbookOBJ:LO6 Describe the sequence of the action potential and neural impulse.MSC:TYPE:

- 35. What accounts for the action potential moving down the axon at a constant speed?
  - a. all-or-none lawb. paced resistance principlec. snowball effectd. neuronal push rule

ANS: A 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

36.	If the stimulation is strong enough, the neuron's chemical gates and will come into the neuron. a. open; negative sodium ions c. close; positive sodium ions
	b. open; positive sodium ions d. close; vesicles
	ANS: BPTS: 1DIF: Bloom's: UnderstandREF: 2.3 Neurons: Structure, Function, and Communication, Textbook   Animation - Neuron andTransmitters, OnlineOBJ: 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 statec. change its thresholdb. release a neurotransmitterd. experience an action potential
	ANS:DPTS:1DIF:Bloom's: UnderstandREF:2.3 Neurons: Structure, Function, and Communication, TextbookOBJ:LO6 Describe the sequence of the action potential and neural impulse.MSC:TYPE: Medium
38.	<ul> <li>Which statement is true if there is an action potential at a particular point along the axon? At that point in the axon, the</li> <li>a. inside of the axon is positively charged; the outside is negatively charged</li> <li>b. inside of the axon is negatively charged; the outside is positively charged</li> <li>c. sodium pumps are highly active</li> <li>d. chemical gates are closed to sodium ions</li> </ul>
	ANS: APTS: 1DIF:Bloom's: AnalyzeREF:2.3 Neurons: Structure, Function, and Communication, TextbookOBJ: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 c. action potential
	a.       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. axonc. myelin sheathb. dendritesd. end bulb
	ANS: CPTS: 1DIF: Bloom's: UnderstandREF: 2.3 Neurons: Structure, Function, and Communication, Textbook   Animation - Neuron andTransmitters, OnlineOBJ: LO6 Describe the sequence of the action potential and neural impulse.MSC: TYPE: Easy

41.	While speeding down an axon, the impulse rea the: a. end bulb b. dendrite	c. d.	an incredible speed by jumping at the breaks in myelin sheath synapse
	ANS:CPTS:1DREF:2.3 Neurons:Structure, Function, and CTransmitters, OnlineOBJ:LO6 Describe the sequence of the actionMSC:TYPE:Easy	IF: Comn on pot	Bloom's: Remember nunication, Textbook   Animation - Neuron and tential and neural impulse.
42.	is/are (a) chemical messenger(s) that tran a. Transmitters b. Ion	nsmit c. d.	(s) information between nerves and body organs. THC Enzymes
	ANS: APTS: 1DREF: 2.3 Neurons: Structure, Function and CTransmitters, OnlineOBJ: LO7 Describe neurotransmitters and exMSC: TYPE: Easy	IF: Comm aplain	Bloom's: Remember nunication, Textbook   Animation - Neuron and n how neurons communicate at chemical synapses.
43.	Neurotransmitters are found in the: a. myelin sheath b. sodium ions	c. d.	inhibitory sodium end-bulbs
	ANS:DPTS:1DREF:2.3 Neurons:Structure, Function, and OTransmitters, OnlineOBJ:LO7 Describe neurotransmitters and exMSC:TYPE:Easy	IF: Comn xplain	Bloom's: Remember nunication, Textbook   Animation - Neuron and n how neurons communicate at chemical synapses.
44.	<ul><li>What substance is found in the end bulbs?</li><li>a. neurotransmitters</li><li>b. sodium ions</li></ul>	c. d.	inhibitory sodium precursors
	ANS:APTS:1DREF:2.3 Neurons:Structure, Function, and CTransmitters, OnlineOBJ:LO7 Describe neurotransmitters and exMSC:TYPE:Easy	IF: Comn cplain	Bloom's: Remember nunication, Textbook   Animation - Neuron and n how neurons communicate at chemical synapses.
45.	If receptors in muscle fibers are thought of as l a. the action potential of the axon b. synapses	locks c. d.	, the keys are: the resting state of the axon neurotransmitters
	ANS:DPTS:1DREF:2.3 Neurons:Structure, Function, and OOBJ:LO7 Describe neurotransmitters and exMSC:TYPE:	IF: Comn plain	Bloom's: Understand nunication, Textbook n how neurons communicate at chemical synapses.

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 *opens* the receptor's lock, then the neurotransmitter is said to be:

- a. at the threshold c. positively charged
- d. at an action potential b. excitatory

PTS: 1 ANS: B 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 *closes* the receptor's lock, then the neurotransmitter is said to be:

- a. at the threshold
- c. positively charged
- d. at an action potential

PTS: 1 ANS: B 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:

b. inhibitory

- 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

DIF: Bloom's: Understand ANS: A PTS: 1 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

- c. reverse the charge of a sodium ion
- d. are released during the resting state b. slow down the speed of a nerve impulse

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. excitatoryc. either excitatory or inhibitoryb. inhibitoryd. determined by the all-or-none law
	ANS:CPTS:1DIF:Bloom's: UnderstandREF:2,3 Neurons:Structure, Function, and Communication, Textbook   Animation - Neuron andTransmitters, OnlineOBJ:LO7 Describe neurotransmitters and explain how neurons communicate at chemical synapses.MSC:TYPE: Easy
52.	Excitatory transmitters chemical locks; inhibitory transmitters chemical locks.a. close; openc. destroy; openb. open; closed. open; destroy
	ANS:BPTS:1DIF:Bloom's: UnderstandREF:2.3 Neurons:Structure, Function, and Communication, Textbook   Animation - Neuron andTransmitters, OnlineOBJ:LO7 Describe neurotransmitters and explain how neurons communicate at chemical synapses.MSC:TYPE: Easy
53.	<ul> <li>A child puts her hand on a hot stove. She quickly removes it. This is an example of a(n), and it involves</li> <li>a. learned response; reflexes c. reflex; involuntary reaction</li> <li>b. activating stimulus; voluntary reaction d. excitatory signal; efferent neurons</li> </ul>
	ANS:CPTS:1DIF:Bloom's: AnalyzeREF:2.3 Neurons: Structure, Function, and Communication, TextbookOBJ: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. spinalc. afferentb. motord. efferent
	ANS:CPTS:1DIF:Bloom's: RememberREF:2.3 Neurons: Structure, Function, and Communication, TextbookOBJ: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 languagec. solve complex problemsb. move your bodyd. control your emotions
	ANS:BPTS:1DIF:Bloom's: AnalyzeREF:2.3 Neurons: Structure, Function, and Communication, TextbookOBJ:LO8 Describe the sequence of the reflex response.MSC:TYPE: Medium
56.	Efferent neurons carry information away from the:a. axonc. synapseb. musclesd. spinal cord
	ANS:DPTS:1DIF:Bloom's: RememberREF:2.3 Neurons: Structure, Function, and Communication, TextbookOBJ: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 systemc. primary nervous systemb. central nervous systemd. secondary nervous system
	ANS:APTS:1DIF:Bloom's: UnderstandREF:2.4 Nervous System, Textbook   Animation - Nervous Systems, OnlineOBJ: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 cordc. peripheral nervous systemb. central nervous systemd. limbic system
	ANS:CPTS:1DIF:Bloom's: AnalyzeREF:2.4 Nervous System, Textbook   Animation - Nervous Systems, OnlineOBJ:LO10 Classify the major divisions and subdivisions of the nervous system.MSC:TYPE: Medium
59.	Afferent is to efferent as is toa. sensory; motorb. motor; sensoryc. sensory; spinald. spinal; neuron
	ANS:APTS:1DIF:Bloom's: UnderstandREF:2.4 Nervous System, Textbook   Animation - Nervous Systems, OnlineOBJ:LO11 Differentiate the functions of the major divisions and subdivisions of the nervous system. MSC:TYPE: Medium
60.	<ul> <li>The somatic nervous system contains:</li> <li>a. sympathetic division and parasympathetic division</li> <li>b. afferent and efferent fibers</li> <li>c. sensory and afferent fibers</li> <li>d. motor fibers and latent fibers</li> </ul>
	ANS:BPTS:1DIF:Bloom's: UnderstandREF:2.4 Nervous System, Textbook   Animation - Nervous Systems, OnlineOBJ: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 becauseparts of the body not under conscious control continue to function. These parts are regulated by the:a. central nervous systemc. somatic nervous systemb. autonomic nervous systemd. forebrain
	ANS:BPTS:1DIF:Bloom's: AnalyzeREF:2.4 Nervous System, Textbook   Animation - Nervous Systems, OnlineOBJ:LO11 Differentiate the functions of the major divisions and subdivisions of the nervous system. MSC:TYPE: Medium

- 62. The specific part of the nervous system that is responsible for returning the body to a relaxed state is the:
  - a. parasympathetic nervous system
  - b. somatic nervous system
- c. autonomic nervous system
- d. 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 *Your Autonomic Nervous System*. 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 c. autonomic nervous system
  - b. somatic 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 c. PET 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

67.	fMRI is to as MRI is toa. structure; functionb. function; structurec. organization; functiond. x-ray; gamma ray
	ANS:BPTS:1DIF:Bloom's: AnalyzeREF:2.5 Studying the Living Brain, TextbookOBJ:LO12 Describe the different technologies used to investigate the brain.MSC:TYPE: Easy
68.	Ivan is having his brain scanned. As the machine is working, he is asked to read words on a screen. Heis most likely having a(n):a. MRI scanb. SET scanc. fMRI scand. x-ray scan
	ANS:CPTS:1DIF:Bloom's: AnalyzeREF:2.5 Studying the Living Brain, TextbookOBJ:LO12 Describe the different technologies used to investigate the brain.MSC:TYPE: Easy
69.	<ul> <li>What is the main advantage of fMRI over PET scans?</li> <li>a. PET scans can cause brain damage</li> <li>b. cost</li> <li>c. fMRI can be done with the person awake</li> <li>d. fMRI does not require injection of a radioactive solution</li> </ul>
	ANS:DPTS:1DIF:Bloom's: EvaluateREF:2.5 Studying the Living Brain, TextbookOBJ:LO12 Describe the different technologies used to investigate the brain.MSC:TYPE: Medium
70.	Positron Emission Tomography (PET) differs from Magnetic Resonance Imaging (MRI) in that a PET scan:
71.	<ul> <li>Positron emission tomography (PET) is a technique used to:</li> <li>a. transplant fetal brain tissue</li> <li>b. repair damaged neurons in the spinal cord</li> <li>c. study the function of brain areas</li> <li>d. perform a frontal lobotomy</li> </ul>
	ANS:CPTS:1DIF:Bloom's: UnderstandREF:2.5 Studying the Living Brain, TextbookOBJ:LO12 Describe the different technologies used to investigate the brain.MSC:TYPE: Easy

- 72. Stereotaxic procedures:
  - a. cause a great deal of brain damage
  - b. are used for brain tissue transplants
  - c. have been shown to be ineffective in treating Parkinson's disease
  - d. 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 c. forebrain, midbrain, and hindbrain b. topbrain, 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 c. forebrain
  - b. midbrain 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

- 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
  - b. medulla

- c. cerebellum
- 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. midbrainc. occipital lobeb. medullad. 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:DPTS:1DIF:Bloom's: RememberREF:2.6 Brain: Structures and Functions, Textbook | Video - "Hindbrain Structures," OnlineOBJ: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 most likely involve the cerebellum?

c. dancing

b. long-term memory

a. experiencing emotion

d. listening to a foreign language

ANS:CPTS:1DIF:Bloom's: AnalyzeREF:2.6 Brain: Structures and Functions, Textbook | Video - Hindbrain Structures, OnlineOBJ: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. cortexc. cerebellumb. myelin sheathd. 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 c. lateral
- b. parietal 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

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

a. thyroid

c. pons

b. cerebellum

d. cortex

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 behaviorsb. reflexive actionsc. sensory experiencesd. Wernicke's Aphasia

ANS:APTS:1DIF:Bloom's: RememberREF:2.6 Brain:Structures and Functions, Textbook | Video - The Cortex, OnlineOBJ: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. thalamusc. frontal lobeb. temporal lobed. 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

92. The motor cortex is located in the \_\_\_\_\_ lobe. c. temporal a. somatosensory b. frontal d. occipital

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 cortex c. Broca's area
  - b. the sensory homunculus d. the motor cortex

PTS: 1 ANS: D 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

- 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; temporalc. parietal; occipitalb. temporal; frontald. frontal; parietal
	ANS:BPTS:1DIF:Bloom's: RememberREF:2.6 Brain: Structures and Functions, Textbook   Animation - Broca's and Wernicke's Aphasia, OnlineOBJ:LO15 Identify and locate the four lobes in the cerebral cortex, and state their key functions. MSC:TYPE:Easy
98.	<ul> <li>Wernicke's aphasia and Broca's aphasia are evidence that:</li> <li>a. language abilities are more inherited than acquired</li> <li>b. special areas of the lobes of the cortex control language abilities</li> <li>c. if one area is damaged, the other takes over for it</li> <li>d. human language is so complex that a number of things can go wrong with it</li> </ul>
	ANS:BPTS:1DIF:Bloom's: AnalyzeREF:2.6 Brain: Structures and Functions, Textbook   Animation - "Broca's and Wernicke's Aphasia,"OnlineOBJ: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 visualc. sensoryb. primary auditoryd. motor
	ANS:APTS:1DIF:Bloom's: RememberREF:2.6 Brain: Structures and Functions, TextbookOBJ:LO15 Identify and locate the four lobes in the cerebral cortex, and state their key functions.MSC:TYPE: Easy
100.	<ul> <li>A person with visual agnosia would have problems:</li> <li>a. transmitting electrical messages from the eyes</li> <li>b. recognizing objects or persons they know</li> <li>c. seeing fine parts of a visual stimulus</li> <li>d. seeing objects on a particular side of his or her body</li> </ul>
	ANS:BPTS:1DIF:Bloom's: AnalyzeREF:2.6 Brain: Structures and Functions, TextbookOBJ: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 areac. limbic systemb. cortexd. Wernicke's area
	ANS:CPTS:1DIF:Bloom's: AnalyzeREF:2.6 Brain:Structures and Functions, Textbook   Video - Limbic System, OnlineOBJ: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 c. thalamus b. hippocampus 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. MSC: TYPE: Easy 106. 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? c. occipital lobe a. thalamus d. cerebellum b. hypothalamus PTS: 1 ANS: A 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 c. limbic system b. endorphin system d. pituitary system PTS: 1 ANS: A 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 c. hypothalamus b. adrenal 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 thyroid c. b. gonads 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. pancreasb. gonads

- c. adrenal glands
- d. posterior pituitary

ANS:BPTS:1DIF:Bloom's:UnderstandREF:2.7 The Endocrine System, TextbookOBJ:LO20 Discuss some ways that hormones regulate behavior.MSC:TYPE:Easy

# TRUE/FALSE

1. A family history of Alzheimer's disease does not affect an individual's risk of Alzheimer's.

ANS: FPTS: 1DIF:Bloom's: UnderstandREF: 2.1 Introduction, TextbookOBJ:LO1 Describe Alzheimer's disease.MSC: TYPE: MediumOBJ:Control of the second second

2. DNA is made up of chromosomes.

ANS:FPTS:1DIF:Bloom's: RememberREF:2.2 Genes and Evolution, Textbook | Animation - Genes Overview, OnlineOBJ:LO2 Describe the structures and processes involved in genetic transmission.MSC:TYPE: Easy

3. There are 23 pairs of chromosomes in humans.

ANS:TPTS:1DIF:Bloom's: RememberREF:2.2 Genes and Evolution, Textbook | Animation - Genes Overview, OnlineOBJ:LO2 Describe the structures and processes involved in genetic transmission.MSC:TYPE: Easy

4. Glial cells are the most numerous brain cells.

ANS: TPTS: 1DIF:Bloom's: RememberREF: 2.3 Neuron's: Structure, Function, and Communication, Textbook | Animation - Neuron and<br/>OBJ: LO4 Identify the main functions of glial cells.MSC: TYPE: Easy

5. The dendrite is the input portion of the neuron.

ANS: TPTS: 1DIF: Bloom's: RememberREF: 2.3 Neurons: Structure, Function, and Communication, Textbook | Animation - Neuron and<br/>Transmitters, OnlineOBJ:LO5 Identify the various parts of the neuron and explain how a neuron functions.MSC:TYPE: Easy

6. The space between neurons is called the synapse.

ANS: TPTS: 1DIF: Bloom's: RememberREF: 2.3 Neurons: Structure, Function, and Communication, Textbook | Animation - Neuron and<br/>Transmitters, OnlineOBJ: 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: FPTS: 1DIF: Bloom's: UnderstandREF: 2.3 Neurons: Structure, Function and Communication, Textbook | Animation - Neuron andTransmitters, OnlineOBJ: LO6 Describe the sequence of the action potential and neural impulse.MSC: TYPE: Easy

8. The nerve impulse is called an action potential.

ANS: TPTS: 1DIF: Bloom's: RememberREF: 2.3 Neurons: Structure, Function and Communication, Textbook | Animation - Neuron and<br/>Transmitters, OnlineOBJ: 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: FPTS: 1DIF: Bloom's: UnderstandREF: 2.3 Neurons: Structure, Function, and Communication, Textbook | Animation - Neuron andTransmitters, OnlineOBJ: 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: TPTS: 1DIF: Bloom's: UnderstandREF: 2.3 Neurons: Structure, Function, and Communication, Textbook | Animation - Neuron andTransmitters, OnlineOBJ: 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: TPTS: 1DIF: Bloom's: UnderstandREF: 2.3 Neurons: Structure, Function, and Communication, Textbook | Animation - Neuron andTransmitters, OnlineOBJ: LO7 Describe neurotransmitters and explain how neurons communicate at chemical synapses.MSC: TYPE: Easy

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

ANS: F PTS: 1 DIF: Bloom's: Understand
REF: 2.4 Nervous System, Textbook | Animation - Nervous Systems, Online | Animation - Autonomic Nervous System, Online
OBJ: LO11 Differentiate the functions of the major divisions and subdivisions of the nervous system. MSC: TYPE: Easy

- 13. The sympathetic nervous system returns the body to a calmer state.
  - ANS:FPTS:1DIF:Bloom's: UnderstandREF: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
- 14. MRI scans require an injection of a radioactive material into the patient's blood.

ANS:FPTS:1DIF:Bloom's: AnalyzeREF:2.5 Studying the Living Brain, TextbookOBJ:LO12 Describe the different technologies used to investigate the brain.MSC:TYPE: Easy

15. The cerebellum controls vital reflexes.

ANS: FPTS: 1DIF: Bloom's: RememberREF: 2.6 Brain: Structures and Functions, Textbook | Video - Hindbrain Structures, OnlineOBJ: LO14 Identify and locate the major parts of the brain, and state their functions.MSC: TYPE: Easy

16. The frontal lobes govern executive functions.

ANS: TPTS: 1DIF: Bloom's: RememberREF: 2.6 Brain: Structures and Functions, Textbook | Video - Cerebral Cortex, OnlineOBJ: LO14 Identify and locate the major parts of the brain, and state their functions.MSC: TYPE: Easy

17. In Broca's aphasia, the person has difficulty speaking in a fluent way.

ANS: TPTS: 1DIF: Bloom's: UnderstandREF: 2.6 Brain: Structures and Functions, Textbook | Video - Cerebral Cortex, Online | Animation -<br/>Broca's and Wernicke's Aphasia, OnlineOBJ: LO15 Identify and locate the four lobes in the cerebral cortex, and state their key functions.MSC: TYPE: Easy

18. The primary visual cortex turns visual sensation into a complete, meaningful perception.

ANS: FPTS: 1DIF:Bloom's: RememberREF: 2.6 Brain: Structures and Functions, Textbook | Video - Cerebral Cortex, OnlineOBJ: LO15 Identify and locate the four lobes in the cerebral cortex, and state their key functions.MSC: TYPE: Easy

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

ANS: FPTS: 1DIF:Bloom's: RememberREF: 2.6 Brain: Structures and Functions, Textbook | Video - Limbic System, OnlineOBJ: 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: TPTS: 1DIF: Bloom's: RememberREF: 2.6 Brain: Structures and Functions, Textbook | Video - Limbic System, OnlineOBJ: 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:FPTS:1DIF:Bloom's: AnalyzeREF:2.6 Brain: Structures and Functions, Textbook | Video - Limbic System, OnlineOBJ: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:FPTS:1DIF:Bloom's: UnderstandREF:2.6 Brain: Structures and Functions, Textbook | Video - Inside the Female Brain, OnlineOBJ:LO17 Identify sex differences in the brain.MSC:TYPE: Easy

23. Women have 15-20% more neurons in their brain compared to men.

ANS: TPTS: 1DIF: Bloom's: RememberREF: 2.6 Brain: Structures and Functions, Textbook | Video - Limbic System, OnlineOBJ: 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:FPTS:1DIF:Bloom's AnalyzeREF:2.6 Brain: Structures and Functions, Textbook | Video - Limbic System, OnlineOBJ:LO17 Identify sex differences in the brain.MSC:TYPE: Easy

#### 25. The left hemisphere is good at recognizing tone of voice.

ANS:FPTS:1DIF:Bloom's: AnalyzeREF:2.6 Brain: Structures and Functions, TextbookOBJ:LO18 Describe lateralization of brain functions.MSC:TYPE: Medium

## 26. The left hemisphere is good at language functions.

ANS: TPTS: 1DIF: Bloom's: AnalyzeREF: 2.6 Brain: Structures and Functions, TextbookOBJ:LO18 Describe lateralization of brain functions.MSC: TYPE: Medium

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

ANS:	F PTS:	1	DIF:	Bloom's: Analy	'ze	
REF:	2.6 Brain: Structures	and Functions,	Fextbo	ok		
OBJ:	LO18 Describe latera	lization of brain	functi	ons.	MSC:	TYPE: Medium

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

ANS:	T PTS:	1 DIF	F: Bloom's	s: Analyze	
REF:	2.6 Brain: Structures	and Functions, Tex	tbook		
OBJ:	LO18 Describe latera	lization of brain fur	ctions.	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	Alzhei	mer'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:1DIF:Bloom's: UnderstandREF:2.2 Genes and Evolution, Textbook | Animation - Genes Overview, OnlineOBJ: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:1DIF:Bloom's: UnderstandREF:2.3 Neurons: Structure, Function and Communication, Textbook| Animation - Neuron andTransmitters, OnlineOBJ: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:1DIF:Bloom's: UnderstandREF:2.3 Neurons: Structure, Function, & Communication, TextbookOBJ: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:1DIF:Bloom's: AnalyzeREF:2.6 Brain: Structures and Functions, TextbookOBJ: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.

- PTS: 1 DIF: Bloom's: Remember
- REF: 2.5 Brain: Structures and Functions, Textbook

OBJ: LO18 Describe lateralization of brain functions.

MSC: TYPE: Easy