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# **Chapter 02: The Role of Biology in Psychology**

# MULTIPLE CHOICE

1.	The basic building blocks of the nervous system are the a. neurons. c. dendrites. b. endocrine glands. d. glial cells.
	ANS: A DIF: Easy OBJ: 2.1a   Remember the key terms about the divisions of the nervous system and neurons. NAT: APA Goal 1, Knowledge Base in Psychology MSC: Remembering
2.	The human body's nervous system is built from billions of nerve cells, which are called a. neurotransmitters. c. axons. b. neurons. d. hormones.
	ANS: B DIF: Easy OBJ: 2.1a   Remember the key terms about the divisions of the nervous system and neurons. NAT: APA Goal 1, Knowledge Base in Psychology MSC: Remembering
3.	In the nervous system, each neuron communicates with a. one or two other neurons. b. a random subset of the other neurons in the nervous system. c. many other neurons in an organized network. d. all of the other neurons in the nervous system.
	ANS: C DIF: Moderate OBJ: 2.1a   Remember the key terms about the divisions of the nervous system and neurons. NAT: APA Goal 1, Knowledge Base in Psychology MSC: Remembering
4.	<ul> <li>Which of the following best summarizes the main function(s) of your nervous system?</li> <li>a. It allows the right side of your brain to communicate with the left side of your brain.</li> <li>b. It regulates the oxygen in your blood, protects you from pain, and helps your body eliminate waste.</li> <li>c. It allows you to receive sensory information, process that information, and then respond to</li> </ul>
	<ul><li>it.</li><li>d. It produces vital bodily fluids such as bile and regulates the body's secretion of these fluids.</li></ul>
	ANS: C DIF: Easy OBJ: 2.1b   Apply the three functions of the nervous system to your own life. NAT: APA Goal 1, Knowledge Base in Psychology MSC: Remembering
5.	Your nervous system allows you to do all of the following EXCEPT  a. receive sensory input.  b. perceive and remember information.  c. make behavioral responses.  d. alter genetic codes.
	ANS: D DIF: Easy OBJ: 2.1b   Apply the three functions of the nervous system to your own life. NAT: APA Goal 1, Knowledge Base in Psychology MSC: Remembering
6.	The spinal cord is part of the nervous system.

	<ul><li>a. sensory</li><li>b. peripheral</li></ul>	c. d.	somatic central		
	ANS: D DIF: Easy OBJ: 2.1b   Apply the three functions of the r NAT: APA Goal 1, Knowledge Base in Psych		•		n life. Remembering
7.	The brain and the spinal cord make up the a. central b. peripheral		primary	tem.	
	ANS: A DIF: Easy OBJ: 2.1b   Apply the three functions of the r NAT: APA Goal 1, Knowledge Base in Psych				n life. Remembering
8.	In the nervous system, the cells that receive, in a. axons. b. neurons.	c.	ate, and transn dendrites. glial cells.	nit infor	mation are the
	ANS: B DIF: Easy OBJ: 2.1c   Analyze the three steps in neural NAT: APA Goal 1, Knowledge Base in Psych			MSC:	Remembering
9.	The part of the neuron that collects informatio a. axon. b. synapse.	c.	om other neuro cell body. dendrite.	ns and i	ntegrates it is the
	ANS: C DIF: Easy OBJ: 2.1c   Analyze the three steps in neural NAT: APA Goal 1, Knowledge Base in Psych			MSC:	Remembering
10.	The site where communication occurs between a. axon. b. synapse.		cell body.	the	
	ANS: B DIF: Easy OBJ: 2.1c   Analyze the three steps in neural NAT: APA Goal 1, Knowledge Base in Psych			MSC:	Remembering
11.	<ul><li>When a neuron is stimulated enough, it</li><li>a. fires an action potential.</li><li>b. becomes an agonist.</li></ul>	c. d.	achieves a re becomes an a	_	
	ANS: A DIF: Easy OBJ: 2.1c   Analyze the three steps in neural NAT: APA Goal 1, Knowledge Base in Psych			MSC:	Remembering
12.	After an action potential is fired, the neuron rea. neurotransmitters. b. the synapse.	turn: c. d.	reuptake.		-
	ANS: D DIF: Easy OBJ: 2.1c   Analyze the three steps in neural NAT: APA Goal 1, Knowledge Base in Psych			MSC:	Remembering

13. Neurons are able to communicate when

b. neurotransmitters cross the synapse and bind with receptors on the postsynaptic dendrite. c. electric signals jump across the synapse to the adjacent neuron. d. chemicals released into the synapse are converted to neurotransmitters that bind with receptors. ANS: B DIF: Moderate OBJ: 2.1c | Analyze the three steps in neural communication. NAT: APA Goal 1, Knowledge Base in Psychology MSC: Remembering 14. When inactive, the electrical charge inside a neuron is slightly more negative than the electrical charge outside of the neuron. This difference in electrical charge is the a. action potential. c. inhibitory signal. b. resting state. d. excitatory signal. ANS: B DIF: Moderate OBJ: 2.1c | Analyze the three steps in neural communication. NAT: APA Goal 1, Knowledge Base in Psychology MSC: Remembering 15. In the nervous system, the job of the axons is to \_\_\_\_\_ other neurons. a. transmit action potentials to c. detect information from b. integrate information from d. release neurotransmitters to ANS: A DIF: Moderate OBJ: 2.1c | Analyze the three steps in neural communication. NAT: APA Goal 1, Knowledge Base in Psychology MSC: Understanding 16. A myelin sheath is a fatty layer that protects the axon, so it is most like the a. remote control for a TV. c. layers of a cake. b. insulation around a pipe. d. thermostat of a heater. DIF: Moderate OBJ: 2.1c | Analyze the three steps in neural communication. NAT: APA Goal 1, Knowledge Base in Psychology MSC: Understanding 17. In reuptake, neurotransmitters are reabsorbed into the presynaptic neuron, which a. allows sodium ions to enter the neuron and potassium ions to leave the neuron. b. signals the cell body to produce an inhibitory signal. c. creates an electrical charge that triggers an action potential. d. removes the neurotransmitter from the synapse, and stops stimulation of receptors. ANS: D DIF: Difficult OBJ: 2.1c | Analyze the three steps in neural communication. NAT: APA Goal 1, Knowledge Base in Psychology MSC: Understanding 18. One part of the neuron covers and protects it much like bark that covers the trunk of a tree. In a neuron this protective covering is called a. the terminal button. c. a dendrite. b. the axon. d. the myelin sheath. DIF: Easy ANS: D OBJ: 2.1c | Analyze the three steps in neural communication. NAT: APA Goal 1, Knowledge Base in Psychology MSC: Applying 19. The parts of the neuron that act like mailboxes because they receive information from other places are called the

a. terminal buttons plug into receptor sites on adjacent dendrites.

	b. axons. d. myelin sheaths.
	ANS: C DIF: Easy OBJ: 2.1c   Analyze the three steps in neural communication. NAT: APA Goal 1, Knowledge Base in Psychology MSC: Applying
20.	Juan is trying to find the exact puzzle piece that will fit into a certain place in his puzzle. He says to his friend, "Hey! Finding a puzzle piece to fit into the puzzle is a lot like a. the firing of an action potential."  b. how the unique structure of a neurotransmitter must fit a certain receptor site."  c. how a neuron reaches a resting state."  d. the activity log that the nervous system maintains."
	ANS: B DIF: Easy OBJ: 2.1c   Analyze the three steps in neural communication. NAT: APA Goal 1, Knowledge Base in Psychology MSC: Applying
21.	Chemical substances that carry messages from one neuron to the next are called a. agonists. c. hormones. b. neurotransmitters. d. antagonists.
	ANS: B DIF: Easy OBJ: 2.1d   Apply neurotransmitters to your life.  NAT: APA Goal 1, Knowledge Base in Psychology MSC: Remembering
22.	Drugs that increase the effects of the neurotransmitter GABA a. reduce the symptoms of depression. c. are used to treat anxiety. b. improve motor control. d. may cause seizures.
	ANS: C DIF: Moderate OBJ: 2.1d   Apply neurotransmitters to your life.  NAT: APA Goal 1, Knowledge Base in Psychology MSC: Remembering
23.	A neurotransmitter that is important in muscle contraction is a. epinephrine. c. acetylcholine. b. norepinephrine. d. serotonin.
	ANS: C DIF: Moderate OBJ: 2.1d   Apply neurotransmitters to your life.  NAT: APA Goal 1, Knowledge Base in Psychology MSC: Remembering
24.	If a new drug interferes with how the neurotransmitter acetylcholine functions, then the drug a. is an agonist. c. creates an inhibitory signal. b. is an antagonist. d. creates an excitatory signal.
	ANS: B DIF: Easy OBJ: 2.1d   Apply neurotransmitters to your life.  NAT: APA Goal 1, Knowledge Base in Psychology MSC: Understanding
25.	Because nicotine increases how the neurotransmitter acetylcholine functions, it is an a. inhibitory neurotransmitter. c. antagonist. b. excitatory neurotransmitter. d. agonist.
	ANS: D DIF: Easy OBJ: 2.1d   Apply neurotransmitters to your life.  NAT: APA Goal 1, Knowledge Base in Psychology MSC: Understanding
26.	The action of neurotransmitters is by agonists and is by antagonists.  a. increased; decreased c. increased; not affected d. not affected; decreased

c. dendrites.

a. terminal buttons.

	ANS: A DIF: Moderate NAT: APA Goal 1, Knowledge Base in Ps		2.1d   Apply neurotransmitters to your life. gy MSC: Understanding
27.	Suppose you begin feeling extremely depre depression. The drug you should take shoul a. dopamine. b. epinephrine.	d affec c.	
	ANS: C DIF: Moderate NAT: APA Goal 1, Knowledge Base in Ps		2.1d   Apply neurotransmitters to your life. gy MSC: Understanding
28.	Roberto's grandmother has Alzheimer's disthe neurotransmitter in her brain.  a. much; acetylcholine  b. little; acetylcholine	c.	Therefore, you would expect to see too of much; dopamine little; dopamine
	•	OBJ:	2.1d   Apply neurotransmitters to your life.
29.	Lionel has Parkinson's disease and has diffinvolved with dopamine activity are a. dying off. b. producing too much dopamine.	c.	no longer producing dopamine. rapidly multiplying.
	ANS: A DIF: Difficult NAT: APA Goal 1, Knowledge Base in Ps		2.1d   Apply neurotransmitters to your life. gy MSC: Understanding
30.	You are running a 5K race and suddenly yo caused by your body releasing the neurotrar a. acetylcholine. b. epinephrine.	nsmitte c.	rience an adrenaline rush. This burst of energy is glutamate. dopamine.
	ANS: B DIF: Easy NAT: APA Goal 1, Knowledge Base in Ps		2.1d   Apply neurotransmitters to your life. gy MSC: Applying
31.			$\mathcal{E}$
	ANS: D DIF: Moderate NAT: APA Goal 1, Knowledge Base in Ps	OBJ:	2.1d   Apply neurotransmitters to your life.
32.	more. Benita's desire is most likely activati neurotransmitter	ng the	she finds that she wants to keep playing it more and neurons in her brain that produce more of the
	<ul><li>a. acetylcholine.</li><li>b. epinephrine.</li></ul>	c. d.	serotonin. dopamine.
	ANS: D DIF: Difficult NAT: APA Goal 1, Knowledge Base in Ps		2.1d   Apply neurotransmitters to your life. gy MSC: Applying
33.	Which specialized area of the brain is crucia		e production of speech?

b. the amygdala d. the thalamus ANS: A DIF: Easy OBJ: 2.2a | Remember the key terms about brain regions and processes. NAT: APA Goal 1, Knowledge Base in Psychology MSC: Remembering 34. Which of the following is NOT a modern method for accurately measuring brain activity? a. phrenology b. transcranial magnetic stimulation c. functional magnetic resonance imaging d. an electroencephalograph ANS: A DIF: Easy OBJ: 2.2a | Remember the key terms about brain regions and processes. NAT: APA Goal 1, Knowledge Base in Psychology MSC: Remembering 35. The measure of brain activity that temporarily "turns off" parts of the brain to see how specific brain regions are affected is called a. phrenology. b. transcranial magnetic stimulation. c. functional magnetic resonance imaging. d. an electroencephalograph. ANS: B DIF: Difficult OBJ: 2.2a | Remember the key terms about brain regions and processes. NAT: APA Goal 1, Knowledge Base in Psychology MSC: Understanding 36. Lisa has problems sleeping, so she goes to a sleep clinic. At the clinic the researchers measure her brain's electrical activity as she sleeps by using the technique of a. electroencephalographs (EEGs). b. transcranial magnetic stimulation (TMS). c. functional magnetic resonance imaging (fMRI). d. phrenology. ANS: A DIF: Easy OBJ: 2.2a | Remember the key terms about brain regions and processes. NAT: APA Goal 1, Knowledge Base in Psychology | APA Goal 5, Professional Development MSC: Applying 37. The area of the brain that allows one to initiate voluntary motor activity is the a. hindbrain. c. occipital lobe. b. midbrain. d. temporal lobe. ANS: B DIF: Easy OBJ: 2.2b | Apply the three main brain divisions to your own life. NAT: APA Goal 1, Knowledge Base in Psychology MSC: Remembering

38. One's motivations and emotions are controlled by the

a. hindbrain.b. cerebellum.c. forebrain.d. parietal lobe.

ANS: C DIF: Easy

OBJ: 2.2b | Apply the three main brain divisions to your own life.

NAT: APA Goal 1, Knowledge Base in Psychology MSC: Remembering

39.	The spinal cord is composed of two distinct type bodies of neurons, which do not have myelin of a. substantia nigra b. gray matter	n th		tissue in the spinal cord is called
	ANS: B DIF: Easy OBJ: 2.2b   Apply the three main brain division NAT: APA Goal 1, Knowledge Base in Psych			e. MSC: Remembering
40.	<ul><li>Basic survival functions such as heart rate are c</li><li>a. thalamus.</li><li>b. cerebellum.</li></ul>	c.	rolled by the his hippocampus. medulla.	
	ANS: D DIF: Easy OBJ: 2.2b   Apply the three main brain division NAT: APA Goal 1, Knowledge Base in Psych			e. MSC: Remembering
41.	Damage to the might cause problems a. hippocampus b. cerebellum	c.	th coordination amygdala temporal lobe	
	ANS: B DIF: Moderate OBJ: 2.2b   Apply the three main brain division NAT: APA Goal 1, Knowledge Base in Psych			e. MSC: Understanding
42.	Lucy is pregnant and every time she smells che Lucy's response is most likely caused by the a. pons. b. cerebellum.		she gags and hamedulla.	
	ANS: C DIF: Moderate OBJ: 2.2b   Apply the three main brain division NAT: APA Goal 1, Knowledge Base in Psych			e. MSC: Understanding
43.	Doctors finally understood why a child had diffusion located in the part of her hindbrain called a. thalamus.  b. hypothalamus.	d the	е	
	ANS: D DIF: Easy OBJ: 2.2b   Apply the three main brain division NAT: APA Goal 1, Knowledge Base in Psych	ons	to your own life	e. MSC: Applying
44.	Yves has been drinking. He has difficulty walk officer. Apparently, Yves's is functional. cerebellum b. thalamus	onin c.		when asked to do so by a police
	ANS: A DIF: Moderate OBJ: 2.2b   Apply the three main brain division NAT: APA Goal 1, Knowledge Base in Psych			e. MSC: Applying
45.	According to Maguire and colleagues' study or of a taxi driver's brain is more likely to be large. frontal lobe b. hippocampus	er th		es of London taxi drivers, which part

	ANS: B DIF: Easy OBJ: 2.2c   Remember the five forebrain subc NAT: APA Goal 1, Knowledge Base in Psych			MSC:	Remembering
46.	The brain structure that is associated with the fa. thalamus. b. cerebellum.	c.	ation of memor hippocampus hypothalamus		ne
	ANS: C DIF: Easy OBJ: 2.2c   Remember the five forebrain subc NAT: APA Goal 1, Knowledge Base in Psych		•	MSC:	Remembering
47.	Which of the following brain structures plays a a. hypothalamus b. hippocampus	n in c. d.	amygdala	how w	e respond to fearful things?
	ANS: C DIF: Easy OBJ: 2.2c   Remember the five forebrain subc NAT: APA Goal 1, Knowledge Base in Psych		•	MSC:	Remembering
48.	The basal ganglia is a brain structure that is im a. planning and producing movement. b. regulating emotions. c. synthesizing incoming information. d. thinking.	port	ant in		
	ANS: A DIF: Easy OBJ: 2.2c   Remember the five forebrain subcondition of the properties of the propert		•	MSC:	Remembering
49.	The thalamus receives nearly all sensory information that is the exception to this rule?  a. smell  b. vision	natio c. d.	on before relay hearing taste	ing it to	the cortex. What is the one
	ANS: A DIF: Difficult OBJ: 2.2c   Remember the five forebrain subc NAT: APA Goal 1, Knowledge Base in Psych		•	MSC:	Remembering
50.	Which of the following is NOT a subcortical sta. substantia nigra b. amygdala	ruct c. d.	ture in the foreb basal ganglia hippocampus	orain?	
	ANS: A DIF: Moderate OBJ: 2.2c   Remember the five forebrain subc NAT: APA Goal 1, Knowledge Base in Psych		•	MSC:	Understanding
51.	Information travels from our sensory receptors cortex.	to t	he in	the bra	nin, which relays it to the
	<ul><li>a. basal ganglia</li><li>b. hypothalamus</li></ul>	c. d.	thalamus cerebellum		
	ANS: C DIF: Moderate OBJ: 2.2c   Remember the five forebrain subc NAT: APA Goal 1, Knowledge Base in Psych			MSC:	Understanding

52.	Miranda is working in a laboratory and comes act to stop eating. The researcher tells Miranda that it most likely has the lesion?		
	a. amygdala c	substantia nig	gra
	b. hypothalamus d	. pons	
	ANS: B DIF: Moderate OBJ: 2.2c   Remember the five forebrain subcor NAT: APA Goal 1, Knowledge Base in Psycholo MSC: Applying	•	5, Professional Development
53.	Mario is highly afraid of spiders. Which part of that had a lot of spiders?	ne brain would b	e activated if he were to enter a room
	<u>-</u>	amygdala	
	b. hippocampus d	. thalamus	
	ANS: C DIF: Moderate OBJ: 2.2c   Remember the five forebrain subcor	•	
	NAT: APA Goal 1, Knowledge Base in Psychological Psycholog	ogy	MSC: Applying
54.	Mrs. Fine is highly interested in learning about the following journal articles would be a good fit for a. "What You Need to Know about Your Thalast." "The Basics of Basal Ganglia" c. "How the Cerebellum Works" d. "The Amazing Amygdala"	her interests?	er fourth graders. Which of the
	ANS: D DIF: Moderate OBJ: 2.2c   Remember the five forebrain subcor NAT: APA Goal 1, Knowledge Base in Psycholo MSC: Applying		5, Professional Development
55.	A post office receives lots of incoming mail, orga Which part of the brain is a lot like a post office?	nizes it, and the	n sends it out to various locations.
	a. basal ganglia c	thalamus cerebellum	
	ANS: C DIF: Difficult		
	OBJ: 2.2c   Remember the five forebrain subcor	-	Mag. A. I.:
	NAT: APA Goal 1, Knowledge Base in Psychological Psycholog	ogy	MSC: Applying
56.		_ lobes of the co temporal frontal	erebral cortex.
	ANS: C DIF: Easy		
	OBJ: 2.2d   Understand the four lobes of the cer NAT: APA Goal 1, Knowledge Base in Psychological Control of the Cer NAT: APA Goal 1, Knowledge Base in Psychological Certain Control of the Certain Control of the Certain Ce		MSC: Remembering
57.	Visual information is primarily processed in the _	lobes	of the cerebral cortex.
- • •	a. occipital c	temporal	
	b. parietal d	. frontal	
	ANS: A DIF: Easy OBJ: 2.2d   Understand the four lobes of the cer	ebral cortex.	

	NAT: APA Goal 1, Knowledge Base in Psychological Control of the Co	ogy	MSC: Remembering
58.		eres of the cerel temporal lobe corpus callos	<b>.</b>
	ANS: D DIF: Easy OBJ: 2.2d   Understand the four lobes of the cere NAT: APA Goal 1, Knowledge Base in Psychologous Company (1) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4		MSC: Remembering
59.	The part of the brain that is responsible for the ser the environment is the lobes.  a. frontal c.	nse of touch and temporal	for picturing the layout of spaces in
		occipital	
	ANS: B DIF: Moderate OBJ: 2.2d   Understand the four lobes of the cere NAT: APA Goal 1, Knowledge Base in Psychologous Company (1) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4		MSC: Remembering
60.	Brad has experienced a relatively severe left hemiright arm and has a great deal of difficulty with pl damage to the lobes.	anning and atter	
	<ul><li>a. frontal</li><li>b. parietal</li><li>c.</li><li>d.</li></ul>	temporal occipital	
	ANS: A DIF: Difficult OBJ: 2.2d   Understand the four lobes of the cere NAT: APA Goal 1, Knowledge Base in Psychological Control of the Contr		MSC: Understanding
61.		nything on the l	
	ANS: B DIF: Difficult OBJ: 2.2d   Understand the four lobes of the cere NAT: APA Goal 1, Knowledge Base in Psycholo Thinking MSC: Understanding	ebral cortex.	2, Scientific Inquiry and Critical
62.			
	ANS: D DIF: Moderate OBJ: 2.2d   Understand the four lobes of the cere NAT: APA Goal 1, Knowledge Base in Psychologous Company (1988).		MSC: Applying
63.	Samantha recently became blind and is learning to brain that will be activated by touching the bumps lobes.		
	a. frontal c. b. parietal d.	1	

	ANS: B DIF: Difficult OBJ: 2.2d   Understand the four lobes of the cerebral cortex. NAT: APA Goal 1, Knowledge Base in Psychology   APA Goal 2, Scientific Inquiry and Critical Thinking MSC: Applying
64.	The central nervous system is made up of the  a. somatic and peripheral nervous systems.  b. brain and spinal cord.  c. somatic nervous system and the brain.  d. peripheral nervous system and the spinal cord.
	ANS: B DIF: Easy OBJ: 2.3a   Remember the key terms about the peripheral nervous system and the endocrine system. NAT: APA Goal 1, Knowledge Base in Psychology MSC: Remembering
65.	The somatic nervous system processes information between the central nervous system and one's a. glands. c. skin, muscles, and joints. b. internal organs. d. eyes, ears, nose, and mouth.
	ANS: C DIF: Easy OBJ: 2.3b   Analyze how the somatic nervous system processes information. NAT: APA Goal 1, Knowledge Base in Psychology MSC: Remembering
66.	The somatic nervous system allows a. hormones to secrete. b. movement of the muscles and joints. c. signals to be transmitted to the body's glands. d. the body to return to a calm, resting state.
	ANS: B DIF: Moderate OBJ: 2.3b   Analyze how the somatic nervous system processes information. NAT: APA Goal 1, Knowledge Base in Psychology MSC: Understanding
67.	The somatic nervous system is NOT responsible for processing information about a. feeling sad after learning you did poorly on a test. b. the tingling sensations from your arm when it falls asleep. c. sensing where your foot is on the stairs as you climb them. d. feeling a mosquito when it lands on your neck.
	ANS: A DIF: Moderate OBJ: 2.3b   Analyze how the somatic nervous system processes information. NAT: APA Goal 1, Knowledge Base in Psychology MSC: Understanding
68.	When you paint with a paintbrush, your brain sends messages to your finger muscles so that your fingers move in specific ways. This example illustrates the functions of the system.  a. somatic nervous  c. parasympathetic  b. autonomic nervous  d. endocrine
	ANS: A DIF: Moderate OBJ: 2.3b   Analyze how the somatic nervous system processes information. NAT: APA Goal 1, Knowledge Base in Psychology MSC: Applying
69.	If your hand were to automatically jerk back after accidentally touching a hot kettle, which of the following systems would be responsible for this moment?  a. somatic nervous  c. parasympathetic nervous

	b. sympathetic nervous d. endocrine
	ANS: A DIF: Difficult OBJ: 2.3b   Analyze how the somatic nervous system processes information. NAT: APA Goal 1, Knowledge Base in Psychology MSC: Applying
70.	Your body is prepared for defensive action by the system. a. somatic nervous c. parasympathetic nervous b. sympathetic nervous d. endocrine
	ANS: B DIF: Easy OBJ: 2.3c   Apply the autonomic nervous system to your life. NAT: APA Goal 1, Knowledge Base in Psychology MSC: Remembering
71.	After cautiously walking home and arriving safely from her late-night class, Selma notices that both her heart rate and breathing slow down. This automatic return to a normal state is due to the activity of her nervous system.  a. somatic c. parasympathetic
	b. sympathetic d. endocrine
	ANS: C DIF: Easy OBJ: 2.3c   Apply the autonomic nervous system to your life. NAT: APA Goal 1, Knowledge Base in Psychology MSC: Understanding
72.	When walking to his car late at night, Otto is extra vigilant and his body is on alert for danger. These responses are due to the actions of the system.  a. somatic nervous  b. sympathetic  c. central nervous  d. endocrine
	ANS: B DIF: Easy OBJ: 2.3c   Apply the autonomic nervous system to your life. NAT: APA Goal 1, Knowledge Base in Psychology MSC: Understanding
73.	As you work outside in the yard, you work up a pretty good sweat. Your sweating is due in part to the functioning of your system.  a. somatic nervous  b. autonomic nervous  c. central nervous  d. endocrine
	ANS: B DIF: Moderate OBJ: 2.3c   Apply the autonomic nervous system to your life. NAT: APA Goal 1, Knowledge Base in Psychology MSC: Understanding
74.	People who were at the scene of the Boston Marathon bombing probably experienced a. an activation of their sympathetic nervous systems. b. increased activity in the parietal lobes. c. temporary changes to their somatic nervous systems. d. permanent changes to their endocrine systems.
	ANS: A DIF: Easy OBJ: 2.3c   Apply the autonomic nervous system to your life. NAT: APA Goal 1, Knowledge Base in Psychology MSC: Applying
75.	Nasim is driving on a snow-covered road, and her car begins to slide. The quick behavioral response and the increased heart rate and respiration she experiences are most likely due to the nervous system. The feeling of relief and decrease in heart rate and respiration once she has the car under control again are most likely due to the nervous system.

	<ul><li>a. parasympathetic; sympathetic</li><li>b. sympathetic; parasympathetic</li><li>c. autonomic; somatic</li><li>d. somatic; autonomic</li></ul>
	ANS: B DIF: Moderate OBJ: 2.3c   Apply the autonomic nervous system to your life. NAT: APA Goal 1, Knowledge Base in Psychology MSC: Applying
76.	The communication system in your body by which hormones influence thoughts, behaviors, and actions is the system.  a. somatic nervous  c. parasympathetic
	b. sympathetic d. endocrine
	ANS: D DIF: Easy OBJ: 2.3d   Understand the endocrine system.  NAT: APA Goal 1, Knowledge Base in Psychology MSC: Remembering
77.	Endocrine glands release a. neurotransmitters. b. receptors. c. hormones. d. glutamate.
	ANS: C DIF: Easy OBJ: 2.3d   Understand the endocrine system.  NAT: APA Goal 1, Knowledge Base in Psychology MSC: Remembering
78.	The ovaries, testes, and adrenal gland are all part of the system.  a. pituitary c. autonomic nervous b. endocrine d. somatic nervous
	ANS: B DIF: Easy OBJ: 2.3d   Understand the endocrine system.  NAT: APA Goal 1, Knowledge Base in Psychology MSC: Remembering
79.	Growth hormones have all of the following effects EXCEPT for increasing a. intelligence. c. strength. b. bone strength. d. muscle mass.
	ANS: A DIF: Moderate OBJ: 2.3d   Understand the endocrine system.  NAT: APA Goal 1, Knowledge Base in Psychology MSC: Understanding
80.	<ul> <li>What might happen to a person born with a dysfunction of the endocrine system?</li> <li>a. The person would have difficulty controlling motor movements.</li> <li>b. The person would experience problems with sexual development.</li> <li>c. The person would have difficulty interpreting emotional expressions.</li> <li>d. The person would experience problems with emotional arousal.</li> </ul>
	ANS: B DIF: Easy OBJ: 2.3d   Understand the endocrine system.  NAT: APA Goal 1, Knowledge Base in Psychology MSC: Applying
81.	If an athlete were using illegal growth hormones to increase his or her muscle growth, he or she would be trying to make changes to his or her a. somatic nervous system. c. autonomic nervous system.
	b. behavioral genetics.  d. endocrine system.  ANS: D DIF: Moderate OBJ: 2.3d   Understand the endocrine system.  NAT: ARA Goal 1 Knowledge Rese in Psychology MSC: Applying
82.	NAT: APA Goal 1, Knowledge Base in Psychology MSC: Applying  Regarding the factors potentially influencing behavior, which of the following statements is true?  a. Behavior overwhelmingly reflects genetics.  b. Behavior mainly stems from environmental causes.

	<ul><li>c. Behavior is generated mainly by the endocrine system.</li><li>d. Behavior reflects an interaction between genetics and the environment.</li></ul>
	ANS: D DIF: Easy OBJ: 2.4a   Remember the key terms about how nature and nurture affect the brain. NAT: APA Goal 1, Knowledge Base in Psychology MSC: Understanding
83.	At conception, your is/are fixed.  a. genotype  b. phenotype  c. genotype and phenotype  d. None of the choices are fixed at conception.
	ANS: A DIF: Easy OBJ: 2.4b   Apply the effects of genetics to your life NAT: APA Goal 1, Knowledge Base in Psychology MSC: Remembering
84.	An instructor looking at the faces of the students in his or her class is also looking at a. stereotypes. c. genotypes. b. archetypes. d. phenotypes.
	ANS: D DIF: Easy OBJ: 2.4b   Apply the effects of genetics to your life NAT: APA Goal 1, Knowledge Base in Psychology   APA Goal 5, Professional Development MSC: Understanding
85.	It is possible for your to change during your lifetime.  a. taxonomic rank  c. genotypes  b. archetypes  d. phenotypes
	ANS: D DIF: Easy OBJ: 2.4b   Apply the effects of genetics to your life NAT: APA Goal 1, Knowledge Base in Psychology MSC: Understanding
86.	Which of the following would NOT be caused by your genotype? a. eye color b. sex c. Huntington's disease d. music preference
	ANS: D DIF: Easy OBJ: 2.4b   Apply the effects of genetics to your life NAT: APA Goal 1, Knowledge Base in Psychology MSC: Understanding
87.	A genotype is, whereas a phenotype is  a. underlying; observed
	ANS: A DIF: Moderate OBJ: 2.4b   Apply the effects of genetics to your life NAT: APA Goal 1, Knowledge Base in Psychology MSC: Understanding
88.	Your little brother has blue eyes. His eye color is the result of a. his genotype. b. his phenotype. c. both his genotype and his environment. d. both his phenotype and his environment.
	ANS: C DIF: Difficult OBJ: 2.4b   Apply the effects of genetics to your life NAT: APA Goal 1, Knowledge Base in Psychology   APA Goal 2, Scientific Inquiry and Critical Thinking MSC: Understanding

89. Behavioral geneticists are primarily interested in

- a. natural selection and the evolution of genes.
- b. discovering how genes control behaviors.
- c. proving that genes have the strongest influence on behavior.
- d. studying the interaction between genes and environment.

ANS: D DIF: Moderate

OBJ: 2.4c | Understand how behavioral genetics studies the interaction of genes and environment.

NAT: APA Goal 1, Knowledge Base in Psychology MSC: Remembering

- 90. Which of the following phenomena would NOT be part of a study in behavioral genetics?
  - a. the effect of one environment on another environment
  - b. the effect of genes on one's environment
  - c. the effect of environmental and genetic interactions on biological phenomena
  - d. the effect of environmental and genetic interactions on psychological phenomena

ANS: A DIF: Easy

OBJ: 2.4c | Understand how behavioral genetics studies the interaction of genes and environment.

NAT: APA Goal 1, Knowledge Base in Psychology MSC: Understanding

- 91. In considering the relative contributions of genes and environment, most scientists would agree that
  - a. environment plays the most important role in shaping behavior.
  - b. only genes shape behavior.
  - c. environment has little effect on behavior.
  - d. genes and environment interact to determine behavior.

ANS: D DIF: Moderate

OBJ: 2.4c | Understand how behavioral genetics studies the interaction of genes and environment.

NAT: APA Goal 1, Knowledge Base in Psychology | APA Goal 5, Professional Development

MSC: Understanding

- 92. You know that your professor is a fan of behavioral genetics based on which of the following comments?
  - a. "Your family determines your behavior."
  - b. "Much of your personality is determined by your genes."
  - c. "There is no evidence to suggest that your environment influences your school achievement."
  - d. "Both your genes and your environment make you who you are today."

ANS: D DIF: Easy

OBJ: 2.4c | Understand how behavioral genetics studies the interaction of genes and environment.

NAT: APA Goal 1, Knowledge Base in Psychology | APA Goal 5, Professional Development

MSC: Applying

93. Bill and his sister Ann are twins; however, they cannot be

a. monozygotic twins. c. fraternal twins.

b. dizygotic twins. d. told apart.

ANS: A DIF: Easy

OBJ: 2.4c | Understand how behavioral genetics studies the interaction of genes and environment.

NAT: APA Goal 1, Knowledge Base in Psychology MSC: Applying

- 94. The advantage of studying monozygotic twins is that
  - a. all of their behaviors are identical.
  - b. they are treated the same in their environment.
  - c. they are easy to locate and track for research.

	d. they are genetically identical.
	ANS: D DIF: Moderate OBJ: 2.4c   Understand how behavioral genetics studies the interaction of genes and environment. NAT: APA Goal 1, Knowledge Base in Psychology MSC: Applying
95.	Which of the following is always true regarding dizygotic twins?  a. They have different genotypes.  b. They have different phenotypes.  c. They have the same genotype.  d. They have the same phenotype.
	ANS: A DIF: Moderate OBJ: 2.4c   Understand how behavioral genetics studies the interaction of genes and environment. NAT: APA Goal 1, Knowledge Base in Psychology MSC: Applying
96.	<ul> <li>The textbook discusses the famous Minnesota Twin Project. Which of the following would best describe a conclusion that could be drawn from this study?</li> <li>a. Twins are more likely to experience a shared environment than a nonshared environment.</li> <li>b. Monozygotic twins are more likely to experience a shared environment than are dizygotic twins.</li> <li>c. There are more similarities among biological relatives than among adoptive relatives.</li> <li>d. There are more similarities between monozygotic twins than between dizygotic twins.</li> </ul>
	ANS: C DIF: Difficult OBJ: 2.4c   Understand how behavioral genetics studies the interaction of genes and environment. NAT: APA Goal 1, Knowledge Base in Psychology   APA Goal 2, Scientific Inquiry and Critical Thinking MSC: Applying
97.	The idea that the brain is extremely malleable and is continuously changing as a result of injury, experiences, or substances is known as a. myelination. c. plasticity. b. genetics. d. phenotype.
	ANS: C DIF: Easy OBJ: 2.4d   Apply the effects of environment to your life. NAT: APA Goal 1, Knowledge Base in Psychology MSC: Remembering
98.	In general, siblings of different ages raised together have a. the same genes but different environments. b. the same environment but different genes. c. different genes and different environments. d. the same genes and the same environment.
	ANS: C DIF: Moderate OBJ: 2.4d   Apply the effects of environment to your life. NAT: APA Goal 1, Knowledge Base in Psychology MSC: Understanding
99.	Which of the following is NOT a pathway through which the environment could affect your brain functioning?  a. through plasticity  b. by strengthening neural connections  c. by brain reorganization  d. by changing your genotype
	ANS: D DIF: Easy OBJ: 2.4d   Apply the effects of environment to your life. NAT: APA Goal 1, Knowledge Base in Psychology MSC: Applying

- 100. Why do monozygotic twins have different phenotypes?
  - a. They have different genotypes.
  - b. They have nonshared environments.
  - c. They have the same environments but different genes.
  - d. Because they are fraternal twins.

ANS: B DIF: Moderate

OBJ: 2.4d | Apply the effects of environment to your life.

NAT: APA Goal 1, Knowledge Base in Psychology MSC: Applying

#### SHORT ANSWER

1. At this very moment, you are using your nervous system to help you read and understand this question. Describe the three functions of the nervous system by explaining how you are using each function right now as you answer this question.

#### ANS:

Suggested answer:

One of the functions of the nervous system is to receive sensory input. As I looked at the words on this page, I received visual information that was received by my nervous system. Another function of the nervous system is to process incoming information. After I looked at this test question, I used my nervous system to think about the words and what they meant. The nervous system also allows one to respond to incoming input by acting on it. I did this by choosing my words and writing down my answer.

DIF: Difficult OBJ: 2.1b | Apply the three functions of the nervous system to your own life. NAT: APA Goal 1, Knowledge Base in Psychology | APA Goal 2, Scientific Inquiry and Critical Thinking | APA Goal 4, Communication MSC: Applying

2. Describe the difference between agonist and antagonistic drugs.

## ANS:

Suggested answer:

Agonists are drugs that enhance the actions of a neurotransmitter. Antagonists are drugs that inhibit the actions of a neurotransmitter.

DIF: Moderate OBJ: 2.1c | Analyze the three steps in neural communication. NAT: APA Goal 1, Knowledge Base in Psychology | APA Goal 4, Communication MSC: Remembering

3. Explain the key functions of serotonin. In your answer, be sure to discuss what is associated with a lack of serotonin in the brain.

# ANS:

Suggested answer:

Serotonin is involved in a wide range of psychological processes such as emotional states, impulse control, and dreaming. A lack of serotonin is believed to contribute to sad and anxious moods, food cravings, and aggressive behavior.

DIF: Moderate OBJ: 2.1d | Apply neurotransmitters to your life.

NAT: APA Goal 1, Knowledge Base in Psychology | APA Goal 4, Communication

MSC: Remembering

4. Explain the key functions of dopamine. In your answer, be sure to discuss what occurs when there is a lack of dopamine in the brain.

#### ANS:

Suggested answer:

Dopamine is involved in motivation and reward. For example, it motivates people to eat when hungry, drink when thirsty, or have sex when aroused. A lack of dopamine is associated with problems in movement, as occurs with Parkinson's disease.

DIF: Moderate OBJ: 2.1d | Apply neurotransmitters to your life.

NAT: APA Goal 1, Knowledge Base in Psychology | APA Goal 4, Communication

MSC: Remembering

5. List the key structures of the hindbrain and explain the functions of each.

#### ANS:

Suggested answer:

The medulla, pons, and cerebellum are the key structures of the hindbrain. The medulla controls basic life functions such as breathing, heart rate, swallowing, vomiting, and urination. The pons plays a role in sleep and arousal and in coordinating movements between the left and right sides of the body. The cerebellum is responsible for motor learning, coordination, and balance.

DIF: Moderate OBJ: 2.2a | Remember the key terms about brain regions and processes.

NAT: APA Goal 1, Knowledge Base in Psychology | APA Goal 4, Communication

MSC: Remembering

6. List the five subcortical structures of the forebrain. Then, briefly explain the function of each structure.

#### ANS:

Suggested answer:

The subcortical structures of the forebrain include the thalamus, hypothalamus, hippocampus, amygdala, and basal ganglia. The thalamus is involved in sensory information. The hypothalamus is involved in the regulation of functions such as body temperature, hunger, and thirst. The hippocampus is involved in the formation of new memories. The amygdala is involved in the association of emotions with experiences. The basal ganglia is involved in motor planning, movement, and reward. These five structures are part of the limbic system, which controls motivated behaviors such as eating and drinking, and which is associated with the regulation of emotions.

DIF: Moderate OBJ: 2.2c | Remember the five forebrain subcortical regions. NAT: APA Goal 1, Knowledge Base in Psychology | APA Goal 4, Communication

MSC: Remembering

7. A man is rushed to the hospital after an injury that severely damaged his hippocampus. What kinds of problems might be expect due to this damage?

# ANS:

Suggested answer:

Because the hippocampus plays an important role in the formation of new memories, the man is likely to have difficulty remembering new information.

DIF: Easy OBJ: 2.2c | Remember the five forebrain subcortical regions. NAT: APA Goal 1, Knowledge Base in Psychology | APA Goal 4, Communication

MSC: Understanding

8. List the four lobes of the cerebral cortex and explain the functions of each.

#### ANS:

Suggested answer:

The cerebral cortex contains the occipital, parietal, temporal, and frontal lobes. The occipital is involved in vision. The parietal lobe is involved in touch and spatial information. The temporal lobe is involved in hearing and memory. The frontal lobe is involved in planning, movement, and complex thought.

DIF: Moderate OBJ: 2.2d | Understand the four lobes of the cerebral cortex. NAT: APA Goal 1, Knowledge Base in Psychology | APA Goal 4, Communication

MSC: Remembering

9. Describe the famous historical case of Phineas Gage. What happened to Gage, and what did it teach psychologists about the brain?

#### ANS:

Suggested answer:

Phineas Gage was a construction worker who experienced severe damage to his prefrontal cortex after a railroad accident. As a result of the injury, Gage's personality seemed to change and he no longer was the man he used to be. He became impatient and had difficultly controlling himself and getting along with others. This taught psychologists about the specific functions of the prefrontal cortex. Specifically, it suggested that the prefrontal cortex of the frontal lobe was responsible for the sense of self and was important for many aspects of human social life including empathy, rational thought, and sustaining attention.

DIF: Difficult OBJ: 2.2d | Understand the four lobes of the cerebral cortex.

NAT: APA Goal 1, Knowledge Base in Psychology | APA Goal 4, Communication | APA Goal 5,

Professional Development MSC: Understanding

10. Distinguish between the functions of the sympathetic nervous system and the parasympathetic nervous system.

# ANS:

Suggested answer:

The sympathetic nervous system prepares the body for action. When activated it causes the pupils to dilate and causes increases in heart rate and respiration. In contrast, the parasympathetic nervous system returns the body to a normal state of functioning. When activated it causes the pupils to contract and decreases heart rate and respiration.

DIF: Moderate

OBJ: 2.3a | Remember the key terms about the peripheral nervous system and the endocrine system.

NAT: APA Goal 1, Knowledge Base in Psychology | APA Goal 4, Communication

MSC: Understanding

11. What kind of information is transmitted by the somatic nervous system? How is this information transmitted?

#### ANS:

Suggested answer:

The somatic nervous system transmits sensory information. It transmits sensory information to the central nervous system through receptors in the skin, muscles, and joints.

DIF: Difficult OBJ: 2.3b | Analyze how the somatic nervous system processes information.

NAT: APA Goal 1, Knowledge Base in Psychology | APA Goal 4, Communication

MSC: Understanding

12. What is the endocrine system and how does it influence behavior?

#### ANS:

Suggested answer:

The endocrine system is a communication system that involves glands and hormones. The glands produce and release hormones. These hormones travel through the bloodstream and influence thoughts and actions.

DIF: Moderate OBJ: 2.3d | Understand the endocrine system.

NAT: APA Goal 1, Knowledge Base in Psychology | APA Goal 4, Communication

MSC: Understanding

13. Distinguish between genotype and phenotype. Give an example of each.

#### ANS:

Suggested answer:

Genotype is one's genetic makeup. An example of genotype is eye color. Phenotype is one's observable physical and psychological characteristics. An example of phenotype is one's level of friendliness.

DIF: Easy

OBJ: 2.4a | Remember the key terms about how nature and nurture affect the brain. NAT: APA Goal 1, Knowledge Base in Psychology | APA Goal 4, Communication

MSC: Understanding

14. While speaking to a large audience, Dr. Neuro states that the brain has plasticity. Your roommate turns to you and says, "I have no idea what plasticity means." Provide your roommate with an explanation of brain plasticity. In doing so, provide an example.

### ANS:

Suggested answer:

Plasticity describes a property of the brain. Plasticity means that the brain can physically change as a result of experience, drugs, or injury. For example, if one side of the brain's hemisphere is damaged during an injury, the brain can reorganize itself so that the uninjured hemisphere can take on some of the functions of the lost hemisphere.

DIF: Moderate

OBJ: 2.4a | Remember the key terms about how nature and nurture affect the brain.

NAT: APA Goal 1, Knowledge Base in Psychology | APA Goal 4, Communication | APA Goal 5,

Professional Development MSC: Understanding

15. What do behavioral geneticists study?

## ANS:

Suggested answer:

Behavioral geneticists use twin studies to examine how genes and environment interact to influence thought and behavior.

DIF: Easy

OBJ: 2.4c | Understand how behavioral genetics studies the interaction of genes and environment.

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